

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020006	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> R20014
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	456,405.0120	
<b>Easting (M)</b>	430,693.5720	
<b>Elevation (M)*</b>	51.311	
<b>Northing (SFT)</b>	1,497,388.7769	
<b>Easting (SFT)</b>	1,413,033.8275	
<b>Elevation (SFT)*</b>	168.343	

  

<b>Convergence Angle</b>	0	11	3.0564568
<b>Scale Factor</b>	1.000030130		
<b>Elevation Adjust. Factor</b>	0.9999919477		
<b>Combined Adjust. Factor</b>	1.0000220775		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKED	177	0.73	2.4
<b>MK # 2</b>	GUY POLE	313	34.47	113.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="LISA"/>	
<b>Ref Mon # 3</b> <input type="text" value="82 V 10 W"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 10 29.1502992
<b>Longitude</b>	91 40 15.3162588
<b>Ellipsoid Height (M):</b>	25.550
<b>Geoid Height (M):</b>	-25.761

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 14.08 KM (8.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.587 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	020006A
<b>Geodetic Azimuth</b>	274 01 36.20482
<b>Grid Azimuth</b>	273 50 33.26235

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020006A	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> R20014
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	456,436.7660	
<b>Easting (M)</b>	430,220.7940	
<b>Elevation (M)*</b>	52.891	
<b>Northing (SFT)</b>	1,497,492.9565	
<b>Easting (SFT)</b>	1,411,482.7216	
<b>Elevation (SFT)*</b>	173.527	

  

<b>Convergence Angle</b>	0	10	52.8455320
<b>Scale Factor</b>	1.000030053		
<b>Elevation Adjust. Factor</b>	0.9999916997		
<b>Combined Adjust. Factor</b>	1.0000217525		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	269	28.06	92.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 STELL	
Ref Mon # 2 LISA	
Ref Mon # 3 82 V 10 W	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 10 30.2299320
<b>Longitude</b>	91 40 33.5601300
<b>Ellipsoid Height (M):</b>	27.131
<b>Geoid Height (M):</b>	-25.760

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.60 KM (8.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.53 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020007	<b>Date Monumented</b> 10/11/1999	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 2735_1,020676
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	463,621.6588	0.0006	
<b>Easting (M)</b>	421,948.4874	0.0006	
<b>Elevation (M)*</b>	46.696	0.0010	
<b>Northing (SFT)</b>	1,521,065.3922		
<b>Easting (SFT)</b>	1,384,342.6624		
<b>Elevation (SFT)*</b>	153.201		

  

<b>Convergence Angle</b>	0	7	54.5006062
<b>Scale Factor</b>	1.000013838		
<b>Elevation Adjust. Factor</b>	0.9999926719		
<b>Combined Adjust. Factor</b>	1.0000065098		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	14	24.1735344
<b>Longitude</b>	91	45	52.2086184
<b>Ellipsoid Height:</b>	20.956		
<b>Grid Northing (Meters)</b>	463,621.6360		
<b>Grid Easting (Meters)</b>	421,948.5030		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF EAST HEADWALL	321	0.92	3.0
MK # 2	SOUTH END OF WEST HEADWALL	242	12.25	40.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARMO <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> IULM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.</td> </tr> </table>	Comments	Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.
Comments			
Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.			

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 425, LOCATED IN HAMBURG, GO EAST ON U.S. HIGHWAY 82 FOR 3.63 KM (2.09 MI) TO THE STATION ON THE LEFT SET IN THE FRONT LAWN OF THE ASHLEY COUNTY AHTD MAINTENANCE AREA. THE STATION IS 9.80 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 7.25 METERS EAST OF THE CENTER OF THE WEST ENTRANCE TO THE MAINTENANCE AREA AND 0.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUASH WITH THE GROUND. THE SHOT DISTANCE IS 386.539 METERS.

  

<b>AZ Mark Station</b>	020007A
<b>Geodetic Azimuth</b>	58 58 39.79417
<b>Grid Azimuth</b>	58 50 45.21943

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020007A	<b>Date Monumented</b> 10/11/1999	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 2735_1,020676
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	463,821.6231	0.0006	
<b>Easting (M)</b>	422,279.2769	0.0006	
<b>Elevation (M)*</b>	52.445	0.0010	
<b>Northing (SFT)</b>	1,521,721.4418		
<b>Easting (SFT)</b>	1,385,427.9276		
<b>Elevation (SFT)*</b>	172.062		

  

<b>Convergence Angle</b>	0	8	1.6619560
<b>Scale Factor</b>	1.000013408		
<b>Elevation Adjust. Factor</b>	0.9999917698		
<b>Combined Adjust. Factor</b>	1.0000051777		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	14	30.6395556
<b>Longitude</b>	91	45	39.4132104
<b>Ellipsoid Height:</b>	265.846		
<b>Grid Northing (Meters)</b>	463,821.6111		
<b>Grid Easting (Meters)</b>	422,279.2980		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	45	4.55	14.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARMO <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> IULM	Updated in April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 14 30.6399480
<b>Longitude</b>	91 45 39.4140240
<b>Ellipsoid Height (M):</b>	26.641
<b>Geoid Height (M):</b>	-25.804

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 425, LOCATED IN HAMBURG, GO EAST ON U.S. HIGHWAY 82 FOR 3.75 KM (2.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82. THE STATION IS A STANDARD 64mm CAP STAMPED "020007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.539 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020008	<b>Date Monumented</b> 1/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020323
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,060.6559	
<b>Easting (M)</b>	404,874.7498	
<b>Elevation (M)*</b>	50.687	
<b>Northing (SFT)</b>	1,483,135.6686	
<b>Easting (SFT)</b>	1,328,326.5750	
<b>Elevation (SFT)*</b>	166.296	

  

<b>Convergence Angle</b>	0	1	45.2590173
<b>Scale Factor</b>	1.000040402		
<b>Elevation Adjust. Factor</b>	0.9999920456		
<b>Combined Adjust. Factor</b>	1.0000324473		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 133, LOCATED ON THE EAST SIDE OF CROSSETT, GO EAST ON U.S. HIGHWAY 82 FOR 0.52 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 14.00 METERS WEST OF THE CENTER OF EAST WELLFIELD ROAD, 12.64 METERS NORTH OF THE NORTH RAIL OF AN ABANDONED RAILROAD TRACK AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020008 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 958. THE SHOT DISTANCE IS 416.149 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	260	29.05	95.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/> <b>Ref Mon # 2</b> <input type="text" value="LISA"/> <b>Ref Mon # 3</b> <input type="text" value="J 12 OFFSET"/>	ELEVATION BY 3-WIRE FROM NGS POINT J 12

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020008A	<b>Date Monumented</b> 1/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020323
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,113.0465	
<b>Easting (M)</b>	404,351.5415	
<b>Elevation (M)*</b>	46.309	
<b>Northing (SFT)</b>	1,483,307.5534	
<b>Easting (SFT)</b>	1,326,610.0157	
<b>Elevation (SFT)*</b>	151.931	

  

<b>Convergence Angle</b>	0	1	33.9620526
<b>Scale Factor</b>	1.000040273		
<b>Elevation Adjust. Factor</b>	0.9999927327		
<b>Combined Adjust. Factor</b>	1.0000330054		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ON THE EAST SIDE OF CROSSETT, AT THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 133. THE STATION IS LOCATED 30.30 METERS NORTH OF THE CENTER OF THE WEST BOUND LANE OF U.S. HIGHWAY 82, 13.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020008A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 958. THE SHOT DISTANCE IS 524.308 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	14	15.60	51.2
<b>MK # 2</b>	POWER POLE	112	7.50	24.6
<b>MK # 3</b>	SIGNAL LIGHT CONTROL BOX	155	14.35	47.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="STELL"/> <b>Ref Mon # 2</b> <input type="text" value="LISA"/> <b>Ref Mon # 3</b> <input type="text" value="J 12 OFFSET"/>	ELEVATION BY 3-WIRE FROM NGS POINT J 12

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020009	<b>Date Monumented</b> 1/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020323
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,725.6178	
<b>Easting (M)</b>	405,460.5267	
<b>Elevation (M)*</b>	44.873	
<b>Northing (SFT)</b>	1,495,159.7977	
<b>Easting (SFT)</b>	1,330,248.4113	
<b>Elevation (SFT)*</b>	147.220	

  

<b>Convergence Angle</b>	0	1	57.9527739
<b>Scale Factor</b>	1.000031612		
<b>Elevation Adjust. Factor</b>	0.9999929581		
<b>Combined Adjust. Factor</b>	1.0000245698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 52, LOCATED IN NORTH CROSSETT, GO NORTH ON STATE HIGHWAY 133 FOR 0.34 KM (0.21 MI) TO THE JUNCTION OF MARIAS SALINE STREET AND THE STATION ON THE RIGHT. THE STATION IS 11.15 METERS SOUTH OF THE CENTER OF MARIAS SALINE STREET, 7.65 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020009 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 416.149 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CMP	339	5.60	18.4
<b>MK # 2</b>	WATER VALVE	44	9.45	31.0
<b>MK # 3</b>	NORTH END OF A METEL PIPE CULVERT	185	13.75	45.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="STELL"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="LISA"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="J 12 OFFSET"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> ELEVATION BY 3-WIRE FROM NGS POINT J 12 </div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020009A	<b>Date Monumented</b> 1/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020323
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,309.5702	
<b>Easting (M)</b>	405,450.8355	
<b>Elevation (M)*</b>	47.162	
<b>Northing (SFT)</b>	1,493,794.8149	
<b>Easting (SFT)</b>	1,330,216.6161	
<b>Elevation (SFT)*</b>	154.731	

  

<b>Convergence Angle</b>	0	1	57.7383053
<b>Scale Factor</b>	1.000032594		
<b>Elevation Adjust. Factor</b>	0.9999925988		
<b>Combined Adjust. Factor</b>	1.0000251925		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 52, LOCATED IN NORTH CROSSETT GO SOUTH ON STATE HIGHWAY 133 FOR 0.08 KM (0.05 MI) TO THE ENTRANCE TO THE OLD WREN MOVIE DRIVE-IN AND THE STATION ON THE LEFT. THE STATION IS 10.30 METER EAST OF THE CENTER OF STATE HIGHWAY 133, 8.00 METERS NORTH OF THE CENTER OF THE EXIT DRIVE OF THE DRIVE-IN, 7.30 METERS SOUTH OF A GRAVEL DRIVE TO A TRAILER PART AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020009A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 416.149 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL LIGHT POLE	136	19.30	63.3
MK # 2	EAST END OF WOODEN SIGN (WERN MOVI	157	14.00	45.9
MK # 3	GUY POLE	199	14.80	48.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="STELL"/></p> <p>Ref Mon # 2: <input type="text" value="LISA"/></p> <p>Ref Mon # 3: <input type="text" value="J 12 OFFSET"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE FROM NGS POINT J 12</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020010	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	477,389.6106		
<b>Easting (M)</b>	413,831.5792		
<b>Elevation (M)*</b>	51.209		
<b>Northing (SFT)</b>	1,566,235.7474		
<b>Easting (SFT)</b>	1,357,712.4394		
<b>Elevation (SFT)*</b>	168.008		

  

<b>Convergence Angle</b>	0	4	59.4549925
<b>Scale Factor</b>	0.999986365		
<b>Elevation Adjust. Factor</b>	0.9999919637		
<b>Combined Adjust. Factor</b>	0.9999783288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 16.09 KM (10.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 10.50 METERS EAST OF THE CENTER OF A PAVED DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 591.995 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020011	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	473,111.0382	
<b>Easting (M)</b>	415,485.7983	
<b>Elevation (M)*</b>	51.809	
<b>Northing (SFT)</b>	1,552,198.4645	
<b>Easting (SFT)</b>	1,363,139.6566	
<b>Elevation (SFT)*</b>	169.977	

  

<b>Convergence Angle</b>	0	5	35.1184347
<b>Scale Factor</b>	0.999994401		
<b>Elevation Adjust. Factor</b>	0.9999918695		
<b>Combined Adjust. Factor</b>	0.9999862706		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 11.27 KM (7.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 16.40 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&amp;G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 474.145 METER.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	020011A
<b>Geodetic Azimuth</b>	339 40 15.67735
<b>Grid Azimuth</b>	339 34 40.59163

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020011A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	473,555.3735	
<b>Easting (M)</b>	415,320.3568	
<b>Elevation (M)*</b>	55.235	
<b>Northing (SFT)</b>	1,553,656.2546	
<b>Easting (SFT)</b>	1,362,596.8706	
<b>Elevation (SFT)*</b>	181.217	

  

<b>Convergence Angle</b>	0	5	31.5536814
<b>Scale Factor</b>	0.999993546		
<b>Elevation Adjust. Factor</b>	0.9999913319		
<b>Combined Adjust. Factor</b>	0.9999848780		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	330	16.50	54.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 19 47.0302356
<b>Longitude</b>	91 50 7.6126524
<b>Ellipsoid Height (M):</b>	29.594
<b>Geoid Height (M):</b>	-25.641

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 11.83 KM (7.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 13.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&amp;G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 474.145 METERS.</p>

<b>AZ Mark Station</b>	020011
<b>Geodetic Azimuth</b>	159 40 12.17797
<b>Grid Azimuth</b>	159 34 40.59163

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020012	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	468,985.3805				
<b>Easting (M)</b>	416,728.0738				
<b>Elevation (M)*</b>	59.885				
<b>Northing (SFT)</b>	1,538,662.8692				
<b>Easting (SFT)</b>	1,367,215.3555				
<b>Elevation (SFT)*</b>	196.473				

  

<b>Convergence Angle</b>	0	6	1.8450616
<b>Scale Factor</b>	1.000002574		
<b>Elevation Adjust. Factor</b>	0.9999906022		
<b>Combined Adjust. Factor</b>	0.9999931762		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POLE	155	20.10	65.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	020012A
<b>Geodetic Azimuth</b>	163 21 31.03331
<b>Grid Azimuth</b>	163 15 29.15067

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010002	<b>Date Monumented</b> 10/25/2000	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020140,020630
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	597,957.2955	0.0020
<b>Easting (M)</b>	434,916.8054	0.0020
<b>Elevation (M)*</b>	58.497	0.0000

  

<b>Northing (SFT)</b>	1,961,798.2270	
<b>Easting (SFT)</b>	1,426,889.5524	
<b>Elevation (SFT)*</b>	191.920	

  

<b>Convergence Angle</b>	0 12	45.6384234
<b>Scale Factor</b>	0.999944809	
<b>Elevation Adjust. Factor</b>	0.9999908200	
<b>Combined Adjust. Factor</b>	0.9999356295	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	27	3.1306824
<b>Longitude</b>	91	37	12.0340524
<b>Ellipsoid Height:</b>	32.117		
<b>Grid Northing (Meters)</b>	597,957.2980		
<b>Grid Easting (Meters)</b>	434,916.7770		

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 6.65 KM (4.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010002 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.692 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	244	20.30	66.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	010002A
<b>Geodetic Azimuth</b>	226 37 23.69092
<b>Grid Azimuth</b>	226 24 38.00928

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	*****Superseded Elev. 192.181' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.
<b>Ref Mon # 2</b> J 112	
<b>Ref Mon # 3</b> ALMYPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010002A	<b>Date Monumented</b> 10/25/2000	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020140.020630
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	597,603.1388	0.0020	
<b>Easting (M)</b>	434,544.7392	0.0020	
<b>Elevation (M)*</b>	58.736	0.0030	
<b>Northing (SFT)</b>	1,960,636.2979		
<b>Easting (SFT)</b>	1,425,668.8652		
<b>Elevation (SFT)*</b>	192.703		

  

<b>Convergence Angle</b>	0	12	37.4514964
<b>Scale Factor</b>	0.999944408		
<b>Elevation Adjust. Factor</b>	0.9999907825		
<b>Combined Adjust. Factor</b>	0.9999351910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	26	51.6810300
<b>Longitude</b>	91	37	26.6609604
<b>Ellipsoid Height:</b>	32.331		
<b>Grid Northing (Meters)</b>	597,603.1316		
<b>Grid Easting (Meters)</b>	434,544.7283		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	322	8.15	26.7
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> K 124 <b>Ref Mon # 2</b> J 112 <b>Ref Mon # 3</b> ALMYPORT AZ MK	*****Superseded Elev. 192.703' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630. Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34 26 51.6812640
<b>Longitude</b>	91 37 26.6605320
<b>Ellipsoid Height (M):</b>	32.181 0.0090
<b>Geoid Height (M):</b>	-26.471

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 6.15 KM (3.82 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010002A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.692 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010003	<b>Date Monumented</b> 10/25/2000	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020140
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,405.6352	
<b>Easting (M)</b>	430,876.1192	
<b>Elevation (M)*</b>	59.019	
<b>Northing (SFT)</b>	1,953,426.6548	
<b>Easting (SFT)</b>	1,413,632.7344	
<b>Elevation (SFT)*</b>	193.632	

  

<b>Convergence Angle</b>	0	11	16.8533315
<b>Scale Factor</b>	0.999941992		
<b>Elevation Adjust. Factor</b>	0.9999907381		
<b>Combined Adjust. Factor</b>	0.9999327306		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 1.88 KM (1.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79, 12.20 METERS NORTH OF THE CENTER OF A GRAVEL ROAD (SENNING LOOP) AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 647.058 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	80	7.15	23.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    K 124</p> <p><b>Ref Mon # 2</b>    J 112</p> <p><b>Ref Mon # 3</b>    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010003A	<b>Date Monumented</b> 10/25/2000	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020140
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,751.6030	
<b>Easting (M)</b>	431,422.8693	
<b>Elevation (M)*</b>	59.207	
<b>Northing (SFT)</b>	1,954,561.7175	
<b>Easting (SFT)</b>	1,415,426.5304	
<b>Elevation (SFT)*</b>	194.248	

  

<b>Convergence Angle</b>	0	11	28.8641987
<b>Scale Factor</b>	0.999942365		
<b>Elevation Adjust. Factor</b>	0.9999907086		
<b>Combined Adjust. Factor</b>	0.9999330741		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 2.51 KM (1.56 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.00 METERS SOUTHWEST OF THE CENTER OF A FIELD ENTRANCE, 13.75 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 647.058 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	56	13.50	44.3
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    J 112</p> <p>Ref Mon # 3    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010011	<b>Date Monumented</b> 10/25/2004	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 153	<b>Job Number:</b> 020417
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	598,316.1949	
<b>Easting (M)</b>	461,836.5840	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,962,975.7161	
<b>Easting (SFT)</b>	1,515,208.8593	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	35.9604343
<b>Scale Factor</b>	0.999945061		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" CMP	28	22.00	72.2
<b>MK # 2</b>	POWER POLE	154	29.10	95.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 480016	
<b>Ref Mon # 2</b> ALMYPORT	
<b>Ref Mon # 3</b> OKOM	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 27 10.2851856
<b>Longitude</b>	91 19 37.3039176
<b>Ellipsoid Height (M):</b>	32.247
<b>Geoid Height (M):</b>	-26.519

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 153 AND STATE HIGHWAY 33, SOUTH OF CASSCOE, GO NORTH (WESTERLY) ON HIGHWAY 153 0.30 MILES TO THE STATION ON THE RIGHT, NORTH 12.7 METERS OF THE CENTERLINE OF THE HIGHWAY, AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010011 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010011A	<b>Date Monumented</b> 10/25/2004	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 153	<b>Job Number:</b> 020417
---------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	598,264.4559	
<b>Easting (M)</b>	462,200.4100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,962,805.9691	
<b>Easting (SFT)</b>	1,516,402.5118	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	43.9307228
<b>Scale Factor</b>	0.999944999		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 153 AND STATE HIGHWAY 33, SOUTH OF CASSCOE, GO NORTH (WESTERLY) ON HIGHWAY 153 0.075 MILES TO THE STATION ON THE LEFT, SOUTH 15.4 METERS OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010011A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    480016</p> <p>Ref Mon # 2    ALMYPORT</p> <p>Ref Mon # 3    OKOM</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010012	<b>Date Monumented</b> 1/24/2008	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 63	<b>Job Number:</b> 001701
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	607,558.6789		
<b>Easting (M)</b>	440,677.4570		
<b>Elevation (M)*</b>	65.741		
<b>Northing (SFT)</b>	1,993,298.7657		
<b>Easting (SFT)</b>	1,445,789.2902		
<b>Elevation (SFT)*</b>	215.685		

  

<b>Convergence Angle</b>	0	14	52.8650165
<b>Scale Factor</b>	0.999956877		
<b>Elevation Adjust. Factor</b>	0.9999896832		
<b>Combined Adjust. Factor</b>	0.9999465607		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	32	13.9925292
<b>Longitude</b>	91	33	24.7089600
<b>Ellipsoid Height:</b>	39.253		
<b>Grid Northing (Meters)</b>	607,559.0413		
<b>Grid Easting (Meters)</b>	440,677.6614		

  

Location Reference Marks						
Description			Azimuth		Distance	
			Meters	Feet	Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER		12		1.18	3.9
MK # 2	FIRE HYDRANT		55		12.01	39.4
MK # 3	SW CORNER BLK BLDING		112		7.93	26.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ALMYPORT AZ Ref Mon # 2    ARLR Ref Mon # 3    590007, 590007A	<b>Comments</b> 3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.
---	---

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    32    13.9807968
<b>Longitude</b>	91    33    24.7170384
<b>Ellipsoid Height (M):</b>	39.253
<b>Geoid Height (M):</b>	-26.488

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63 AND 165, NORTHEAST OF STUTTGARTH, GO SOUTH ON HIGHWAY 63 FOR 191 FEET (CHAINED DISTANCE) TO THE STATION MARK ON THE LEFT, EAST OF THE CENTER OF THE HIGHWAY 63 53.0 FEET AND WEST OF A WITNESS POST 1.50 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "010012 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	010012A
<b>Geodetic Azimuth</b>	185 18 54
<b>Grid Azimuth</b>	185 04 01

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010012A	<b>Date Monumented</b> 1/24/2008	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 63	<b>Job Number:</b> 001701
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,052.1239	
<b>Easting (M)</b>	440,632.5440	
<b>Elevation (M)*</b>	65.658	
<b>Northing (SFT)</b>	1,991,636.8432	
<b>Easting (SFT)</b>	1,445,641.9381	
<b>Elevation (SFT)*</b>	215.412	

  

<b>Convergence Angle</b>	0	14	51.8311198
<b>Scale Factor</b>	0.999956182		
<b>Elevation Adjust. Factor</b>	0.9999896963		
<b>Combined Adjust. Factor</b>	0.9999458787		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	31	57.5594688
<b>Longitude</b>	91	33	26.5563216
<b>Ellipsoid Height:</b>	39.177		
<b>Grid Northing (Meters)</b>	607,052.4882		
<b>Grid Easting (Meters)</b>	440,632.7459		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDASTAL	172	5.73	18.8
MK # 2	POWER POLE W/GUY	255	16.40	53.8
MK # 3	WATER METER	193	6.55	21.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ALMYPORT AZ <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> 590007, 590007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.</td> </tr> </table>	Comments	3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.
Comments			
3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.			

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63 AND 165, NORTHEAST OF STUTTGARTH, GO SOUTH ON HIGHWAY 63 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, WEST OF THE CENTER OF THE HIGHWAY 66.70 FEET AND EAST OF A WITNESS POST 1.50 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "010012A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010013	<b>Date Monumented</b> 9/11/2012	<b>Monumented By</b> AHTD	<b>County</b> Arkansas	<b>Route</b> 1	<b>Job Number:</b> 020538
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	582,740.4465		
<b>Easting (M)</b>	464,700.1820		
<b>Elevation (M)*</b>	60.615	0.0038	
<b>Northing (SFT)</b>	1,911,874.2816		
<b>Easting (SFT)</b>	1,524,603.8471		
<b>Elevation (SFT)*</b>	198.869		

  

<b>Convergence Angle</b>	0	23	36.4064966
<b>Scale Factor</b>	0.999930188		
<b>Elevation Adjust. Factor</b>	0.9999904876		
<b>Combined Adjust. Factor</b>	0.9999206762		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	None		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	18	44.1589320
<b>Longitude</b>	91	17	49.3048680
<b>Ellipsoid Height (M):</b>	34.236		
<b>Geoid Height (M):</b>	-26.382		

  

Location Description
<p>From the junction of Hwy.1 and 1B in Dewitt, Go northeast on hwy.1 for 2.125mi to the station on the left. The station is a standard alum cap set on top of a 4ft 5/8" rebar driven 2" below ground surface, stamped 010013 2012. Lat-034.18.44 Lon-91.17.49</p>

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	w/p		334	8.05	26.4	010013A
MK # 2	pp		20	5.27	17.3	
MK # 3	CL			13.90	45.6	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> Elevation based on NGS Benchmarks R226 and Y225
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/>	
<b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/>	
<b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010013A	<b>Date Monumented</b> 9/11/2012	<b>Monumented By</b> AHTD	<b>County</b> Arkansas	<b>Route</b> 1	<b>Job Number:</b> 020538
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	583,032.8350		
<b>Easting (M)</b>	465,175.0972		
<b>Elevation (M)*</b>	52.405	0.0027	
<b>Northing (SFT)</b>	1,912,833.5595		
<b>Easting (SFT)</b>	1,526,161.9647		
<b>Elevation (SFT)*</b>	171.932		

  

<b>Convergence Angle</b>	0	23	46.8472152
<b>Scale Factor</b>	0.999930408		
<b>Elevation Adjust. Factor</b>	0.9999917760		
<b>Combined Adjust. Factor</b>	0.9999221846		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
From the junction of hwy 1 and 1B in Dewitt, Go northeast on hwy. 1 for 2.45mi to the station on the left. The station is a standard cap stamped 010013A on top of a 4ft. 5/8 rebar driven 2" below the ground surface. Lat-034.18.53 Lon-091.17.30			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	w/p	340	0.60	2.0		010013
MK # 2	center of metal gate	330	32.31	106.0		
MK # 3	CL		13.10	43.0		

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">           Elevation based on NGS Benchmarks R226 and Y225         </td> </tr> </table>	Comments	Elevation based on NGS Benchmarks R226 and Y225
Comments			
Elevation based on NGS Benchmarks R226 and Y225			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010014	<b>Date Monumented</b> 5/2/2013	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 11	<b>Job Number:</b> 020539
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	570,100.7207	
<b>Easting (M)</b>	442,400.6579	
<b>Elevation (M)*</b>	54.898	
<b>Northing (SFT)</b>	1,870,405.4478	
<b>Easting (SFT)</b>	1,451,442.8251	
<b>Elevation (SFT)*</b>	180.110	

  

<b>Convergence Angle</b>	0	15	26.9934698
<b>Scale Factor</b>	0.999922602		
<b>Elevation Adjust. Factor</b>	0.9999913848		
<b>Combined Adjust. Factor</b>	0.9999139875		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	002	14.63	48.0
<b>MK # 2</b>	ABANDONED POLE W/LIGHT	067	1.52	5.0
<b>MK # 3</b>	POWER POLE W/GUY	255	51.21	168.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539.  <div style="height: 100px;"></div>

  

Location Description	
TO REACH FROM THE JCT. OF HWY. 276 AND HWY. 276S SPUR IN BAYOU METO. GO SOUTH ON 276S SPUR FOR 1.0 MILES TO HWY. 11. THEN GO WEST (RIGHT) ON HWY. 11 FOR 1.4 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 4.0 FT. WEST OF A WITNESS POST, AND 68.0 FT. EAST OF THE CENTERLINE OF HWY. 11. THE MARK IS A 2 1/2 IN. CAP STAMPED "010014 2013" SET ON TOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	010014A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010014-2	<b>Date Monumented</b> 5/25/2016	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 152	<b>Job Number:</b> 020582
----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	586,388.5842    0.0020
<b>Easting (M)</b>	438,635.0869    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,923,843.2133	
<b>Easting (SFT)</b>	1,439,088.6143	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	6.1295897
<b>Scale Factor</b>	0.999933250		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
STA IS LOCATED IN THE SW QUADRANT OF JCT OF SR-152 & SR-343, S OF STUTTGART. 39' S OF C/L OF SR-152. 16' W OF FREEMONT LN. STA IS A 2 1/2" ALUM CAP STAMPED "010014 2016" SET BELOW SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	141	69.00	226.4
MK # 2	SERVICE POLE	262	31.00	101.7
MK # 3	POWER POLE W/TRANSFORMER	354	75.00	246.1

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARCM Ref Mon # 2    ARLR Ref Mon # 3    ARPB, ARWY	<b>Comments</b> GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010014A	<b>Date Monumented</b> 5/2/2013	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 11	<b>Job Number:</b> 020539
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	569,334.1958	
<b>Easting (M)</b>	442,415.6827	
<b>Elevation (M)*</b>	54.685	
<b>Northing (SFT)</b>	1,867,890.6074	
<b>Easting (SFT)</b>	1,451,492.1190	
<b>Elevation (SFT)*</b>	179.412	

  

<b>Convergence Angle</b>	0	15	27.2466141
<b>Scale Factor</b>	0.999922263		
<b>Elevation Adjust. Factor</b>	0.9999914183		
<b>Combined Adjust. Factor</b>	0.9999136819		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" CMP UNDER GRAVEL FLD RD	240	3.96	13.0
<b>MK # 2</b>	SOUTH CORNER OF HEADWALL	281	10.97	36.0
<b>MK # 3</b>	POWER POLE	342	7.62	25.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539.  <div style="height: 100px;"></div>

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 11 33.1587528
<b>Longitude</b>	91 32 23.2873980
<b>Ellipsoid Height (M):</b>	28.630
<b>Geoid Height (M):</b>	-26.055

Location Description
TO REACH FROM THE JCT. OF HWY. 276 AND HWY 276S SPUR IN BAYOU METO. GO SOUTH ON HWY. 276S SPUR FOR 1.0 MILES TO HWY. 11. THEN GO WEST (RIGHT) ON HWY. 11 FOR 1.9 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 4.0 FT. EAST OF A WITNESS POST, AND 55.6 FT. EAST OF THE CENTERLINE OF HWY. 11. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "010014A 2013" SET ON TOP OF A 5/8 IN BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

<b>AZ Mark Station</b>	010014
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010014A-2	<b>Date Monumented</b> 5/25/2016	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 343	<b>Job Number:</b> 020582
-----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	586,902.6171	0.0020			
<b>Easting (M)</b>	438,650.1023	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,925,529.6696				
<b>Easting (SFT)</b>	1,439,137.8773				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	14	6.5046326
<b>Scale Factor</b>	0.999933692		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
FROM JCT OF SR-152 & SR-343 S OF STUTTGART, GO N ON SR-343 0.3 MI TO STA ON R JUST PAST THE KING BAYOU DITCH BRIDGE. 20' E OF C/L. STA IS A 2 1/2" ALUM CAP STAMPED "010014A 2016" SET BELOW SURFACE.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	S END OF CMP	333	98.00	321.5	010014-2
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010015	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020630
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	598,368.5725	0.0020
<b>Easting (M)</b>	437,152.8837	0.0020
<b>Elevation (M)*</b>	59.993	0.0000
<b>Northing (SFT)</b>	1,963,147.5583	
<b>Easting (SFT)</b>	1,434,225.7526	
<b>Elevation (SFT)*</b>	196.828	

  

<b>Convergence Angle</b>	0	13	34.7051685
<b>Scale Factor</b>	0.999945270		
<b>Elevation Adjust. Factor</b>	0.9999905852		
<b>Combined Adjust. Factor</b>	0.9999358557		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
From the intersection of Hwy. 79 and 343/Goldman Sunshine Rd. go South 1.0 mile to station on the left at the intersection of Roth Prairie Rd. and Goldman Loop. 27' NW of witness post, 19' S of CL 343/Godman Sunshine Rd., 39' E of CL Roth Prairie Rd.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
<b>MK # 1</b>	witness post		8.23	27.0		010015A
<b>MK # 2</b>	CLof 343/Goldman Sunshine Rd.		5.79	19.0		
<b>MK # 3</b>	CL Roth Prairie Rd		11.89	39.0		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY	Position and elevation updated by crew S5113 in August 2017 during job 020630, which was determined by static GPS constraining the ortho. Ht. at ARPB.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010015A	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 020630
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	598,354.6519	0.0020			
<b>Easting (M)</b>	436,536.6206	0.0020			
<b>Elevation (M)*</b>	60.591	0.0000			
<b>Northing (SFT)</b>	1,963,101.8871				
<b>Easting (SFT)</b>	1,432,203.8961				
<b>Elevation (SFT)*</b>	198.788				

  

<b>Convergence Angle</b>	0	13	21.1904242
<b>Scale Factor</b>	0.999945257		
<b>Elevation Adjust. Factor</b>	0.9999904914		
<b>Combined Adjust. Factor</b>	0.9999357490		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	witness post		8.23	27.0
<b>MK # 2</b>	CLof 343/Goldman Sunshine Rd.		5.79	19.0
<b>MK # 3</b>	CL Roth Prairie Rd		11.89	39.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34 27 15.8268456
<b>Longitude</b>	91 36 8.5121388
<b>Ellipsoid Height (M):</b>	34.091 0.0080
<b>Geoid Height (M):</b>	-26.496

Location Description
From the intersection of Hwy. 79 and 343/Goldman Sunshine Rd. go South 1.0 mile to station on the left at the intersection of Roth Prairie Rd. and Goldman Loop. 27' NW of witness post, 19' S of CL 343/Godman Sunshine Rd., 39' E of CL Roth Prairie Rd.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010016	<b>Date Monumented</b> 1/28/2019	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 144	<b>Job Number:</b> 020714
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	557,721.5048	0.0010			
<b>Easting (M)</b>	453,016.3402	0.0010			
<b>Elevation (M)*</b>	51.893				
<b>Northing (SFT)</b>	1,829,791.3037				
<b>Easting (SFT)</b>	1,486,271.1095				
<b>Elevation (SFT)*</b>	170.254				

  

<b>Convergence Angle</b>	0	19	17.5578738
<b>Scale Factor</b>	0.999918895		
<b>Elevation Adjust. Factor</b>	0.9999918563		
<b>Combined Adjust. Factor</b>	0.9999107520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	0	6.25	20.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARPB	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 2: ARMO	
Ref Mon # 3: MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010016A	<b>Date Monumented</b> 1/28/2019	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 144	<b>Job Number:</b> 020714
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	557,787.1769	0.0010			
<b>Easting (M)</b>	453,437.6599	0.0010			
<b>Elevation (M)*</b>	51.979				
<b>Northing (SFT)</b>	1,830,006.7629				
<b>Easting (SFT)</b>	1,487,653.3892				
<b>Elevation (SFT)*</b>	170.535				

  

<b>Convergence Angle</b>	0	19	26.7648774
<b>Scale Factor</b>	0.999918904		
<b>Elevation Adjust. Factor</b>	0.9999918428		
<b>Combined Adjust. Factor</b>	0.9999107475		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	1	5.49	18.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34    5    16.5663744
<b>Longitude</b>	91    25    15.3398388
<b>Ellipsoid Height (M):</b>	25.793    0.0120
<b>Geoid Height (M):</b>	-26.177    0.0120

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 144 AND STATE HIGHWAY 165, SOUTHWEST OF GILLET, GO EAST ON HIGHWAY 144 2.85 MILES TO THE MARK ON THE RIGHT, 20' NORTH OF THE C/L OF THE HIGHWAY AND 12.6' WEST OF A FIELD ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "010016A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010017	<b>Date Monumented</b> 1/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> ARKANSAS	<b>Route</b> SR-1	<b>Job Number:</b> 02X172
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	580,279.3907	0.0030	
<b>Easting (M)</b>	460,971.5522	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,903,799.9677		
<b>Easting (SFT)</b>	1,512,370.8342		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	14.4336955
<b>Scale Factor</b>	0.999928407		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2: ARMO	
Ref Mon # 3: ARPB, MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 17 25.0920636
<b>Longitude</b>	91 20 15.7657668
<b>Ellipsoid Height (M):</b>	31.421 0.0090
<b>Geoid Height (M):</b>	-26.422 0.0090

  

Location Description
010017 TO REACH THE STATION MARK FROM THE JCT OF SR-152 & SR-1 IN DEWITT, GO NORTH 0.7 MILES TO STATION ON LEFT. 19.6' WEST OF C/L SR-1. 72' NORTH OF C/L 5-TH STREET. THE MARK IS A STANDARD 2½" CAP STAMPED "010017 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 010017A	<b>Date Monumented</b> 1/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> ARKANSAS	<b>Route</b> SR-1	<b>Job Number:</b> 02X172
---------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	580,725.7374	0.0030	
<b>Easting (M)</b>	460,979.1615	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,905,264.3568		
<b>Easting (SFT)</b>	1,512,395.7990		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	14.6634389
<b>Scale Factor</b>	0.999928722		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BRICK FENCE CORNER	130	4.21	13.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> ARPB, MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    17    39.5767428
<b>Longitude</b>	91    20    15.3552840
<b>Ellipsoid Height (M):</b>	30.565    0.0090
<b>Geoid Height (M):</b>	-26.428    0.0090

  

Location Description
010017A TO REACH THE STATION MARK FROM THE JCT OF SR-152 & SR-1 IN DEWITT, GO NORTH 0.9 MILES TO STATION ON RIGHT. 19.7' EAST OF C/L SR-1. 34' NORTH OF C/L 1-ST STREET. THE MARK IS A STANDARD 2½" CAP STAMPED "010017A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020002	<b>Date Monumented</b> 2/25/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020040
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	450,003.1430	
<b>Easting (M)</b>	403,781.7070	
<b>Elevation (M)*</b>	48.849	
<b>Northing (SFT)</b>	1,476,385.3117	
<b>Easting (SFT)</b>	1,324,740.4837	
<b>Elevation (SFT)*</b>	160.265	

  

<b>Convergence Angle</b>	0	1	21.6396879
<b>Scale Factor</b>	1.000045479		
<b>Elevation Adjust. Factor</b>	0.9999923341		
<b>Combined Adjust. Factor</b>	1.0000378127		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	263	23.87	78.3
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	343	17.77	58.3
<b>MK # 3</b>	TRAFFIC SIGNAL BOX	153	23.20	76.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> LISA	
<b>Ref Mon # 2</b> STELL	
<b>Ref Mon # 3</b> G 65 OFFSET,A 200 OFFSET	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 7 2.9329608
<b>Longitude</b>	91 57 34.1342748
<b>Ellipsoid Height (M):</b>	22.992
<b>Geoid Height (M):</b>	-25.846

Location Description
<p>THE STATION IS LOCATED ON THE SOUTH SIDE OF CROSSETT AT THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T. THE STATION IS 30.228 METERS NORTH OF THE CENTER OF A DIRT DRIVE, 23.628 METERS SOUTH-SOUTHWEST OF THE CENTER OF WATERWELL STREET, 11.828 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 (MAIN STREET) AND 1.31 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020002 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	020002A
<b>Geodetic Azimuth</b>	163 28 35.32853
<b>Grid Azimuth</b>	163 27 13.66807

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020003	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> R20014,020534
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,873.1734	
<b>Easting (M)</b>	415,663.4242	
<b>Elevation (M)*</b>	41.260	
<b>Northing (SFT)</b>	1,482,520.5697	
<b>Easting (SFT)</b>	1,363,722.4176	
<b>Elevation (SFT)*</b>	135.368	

  

<b>Convergence Angle</b>	0	5	38.2087286
<b>Scale Factor</b>	1.000040889		
<b>Elevation Adjust. Factor</b>	0.9999935250		
<b>Combined Adjust. Factor</b>	1.0000344137		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO WEST ON US HIGHWAY 82 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.785 METERS NORTH OF THE CENTER OF US HIGHWAY 82, 1.67 METERS SOUTH OF A WEB WIRE FENCE AND 1.53 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020003 1998" SET ON TOP OF AN IRON IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKED	352	1.57	5.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: LISA</p> <p>Ref Mon # 3: 82 V 10 W</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020003A	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> R20014,020534
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,831.9370	
<b>Easting (M)</b>	416,189.9002	
<b>Elevation (M)*</b>	41.218	
<b>Northing (SFT)</b>	1,482,385.2800	
<b>Easting (SFT)</b>	1,365,449.6976	
<b>Elevation (SFT)*</b>	135.228	

  

<b>Convergence Angle</b>	0	5	49.5750054
<b>Scale Factor</b>	1.000040992		
<b>Elevation Adjust. Factor</b>	0.9999935316		
<b>Combined Adjust. Factor</b>	1.0000345234		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO WEST ON US HIGHWAY 82 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.70 METERS SOUTH OF THE CENTER OF US HIGHWAY 82, 7.50 METERS NORTHWEST OF THE CENTER OF A DIRT ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020003A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> STELL <b>Ref Mon # 2</b> LISA <b>Ref Mon # 3</b> 82 V 10 W	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020004	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 52	<b>Job Number:</b> R20014
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,797.4470	
<b>Easting (M)</b>	421,581.0640	
<b>Elevation (M)*</b>	40.374	
<b>Northing (SFT)</b>	1,482,272.1240	
<b>Easting (SFT)</b>	1,383,137.2075	
<b>Elevation (SFT)*</b>	132.461	

  

<b>Convergence Angle</b>	0	7	45.9798770
<b>Scale Factor</b>	1.000041103		
<b>Elevation Adjust. Factor</b>	0.9999936640		
<b>Combined Adjust. Factor</b>	1.0000347667		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO EAST ON STATE HIGHWAY 52 FOR 2.82 KM (1.75 MI) TO THE JUNCTION OF COUNTY ROAD 25, CONTINUE EAST ON STATE HIGHWAY 52 FOR 1.85 KM (1.15 MI) TO THE JUNCTION OF A GRAVEL ROAD AND THE STATION ON THE LEFT. THE STATION IS 28.037 METERS NORTH OF THE CENTER OF STATE HIGHWAY 52, 9.677 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: STELL	ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION
Ref Mon # 2: LISA	
Ref Mon # 3: 82 V 10 W	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020004A	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 52	<b>Job Number:</b> R20014
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,032.2340	
<b>Easting (M)</b>	421,704.7580	
<b>Elevation (M)*</b>	38.890	
<b>Northing (SFT)</b>	1,483,042.4210	
<b>Easting (SFT)</b>	1,383,543.0269	
<b>Elevation (SFT)*</b>	127.591	

  

<b>Convergence Angle</b>	0	7	48.6621966
<b>Scale Factor</b>	1.000040529		
<b>Elevation Adjust. Factor</b>	0.9999938969		
<b>Combined Adjust. Factor</b>	1.0000344257		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO EAST ON STATE HIGHWAY 52 FOR 2.82 KM (1.75 MI) TO THE JUNCTION OF COUNTY ROAD 25, CONTINUE EAST ON STATE HIGHWAY 52 FOR 1.85 KM (1.15 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE LEFT, GO LEFT, NORTH ON THE GRAVEL ROAD FOR 0.29 KM (0.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 61.847 METERS NORTH OF THE NORTH END OF A WOODEN BRIDGE, 4.85 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="STELL"/></p> <p>Ref Mon # 2: <input type="text" value="LISA"/></p> <p>Ref Mon # 3: <input type="text" value="82 V 10 W"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020005	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 52	<b>Job Number:</b> R20014
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,122.8920	
<b>Easting (M)</b>	428,600.8310	
<b>Elevation (M)*</b>	47.062	
<b>Northing (SFT)</b>	1,483,339.8548	
<b>Easting (SFT)</b>	1,406,167.8930	
<b>Elevation (SFT)*</b>	154.403	

  

<b>Convergence Angle</b>	0	10	17.5714323
<b>Scale Factor</b>	1.000040352		
<b>Elevation Adjust. Factor</b>	0.9999926145		
<b>Combined Adjust. Factor</b>	1.0000329662		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.86 KM (8.61 MI) TO THE "Y" JUNCTION OF A GRAVEL ROAD ON THE LEFT AND THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT SOUTH ON THE GRAVEL ROAD FOR 4.48 KM (2.78 MI) TO THE STATION ON THE LEFT AND A "Y" JUNCTION ON THE RIGHT. THE STATION IS 7.10 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	202	13.90	45.6		020005A
MK # 2						206 53 02.29144
MK # 3						206 42 44.78746

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> STELL <b>Ref Mon # 2</b> LISA <b>Ref Mon # 3</b> 82 V 10 W	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020005A	<b>Date Monumented</b> 6/2/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 52	<b>Job Number:</b> R20014
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,594.7729	
<b>Easting (M)</b>	428,335.0710	
<b>Elevation (M)*</b>	45.927	
<b>Northing (SFT)</b>	1,481,607.1841	
<b>Easting (SFT)</b>	1,405,295.9788	
<b>Elevation (SFT)*</b>	150.679	

  

<b>Convergence Angle</b>	0	10	11.7991453
<b>Scale Factor</b>	1.000041643		
<b>Elevation Adjust. Factor</b>	0.9999927926		
<b>Combined Adjust. Factor</b>	1.0000344353		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.86 KM (8.61 MI) TO THE "Y" JUNCTION OF A GRAVEL ROAD ON THE LEFT AND THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT SOUTH ON THE GRAVEL ROAD FOR 5.07 KM (3.15 MI) TO THE JUNCTION OF A GRAVEL ROAD (STATE HIGHWAY 52) AND THE STATION. THE STATION IS 18.438 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 52, 4.748 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	65	17.34	56.9
<b>MK # 2</b>	EAST END OF A 0.45 METER CMP	37	38.51	126.4
<b>MK # 3</b>	WEST END OF A 0.45 METER CMP	24	37.23	122.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    LISA</p> <p><b>Ref Mon # 3</b>    82 V 10 W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020012A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	468,388.1889	
<b>Easting (M)</b>	416,907.7206	
<b>Elevation (M)*</b>	54.845	
<b>Northing (SFT)</b>	1,536,703.5831	
<b>Easting (SFT)</b>	1,367,804.7467	
<b>Elevation (SFT)*</b>	179.937	

  

<b>Convergence Angle</b>	0	6	5.7080926
<b>Scale Factor</b>	1.000003791		
<b>Elevation Adjust. Factor</b>	0.9999913931		
<b>Combined Adjust. Factor</b>	0.9999951841		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 6.44 KM (4.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 2.50 METERS WEST OF THE CENTER OF A WEB WIRE FENCE AND 2.34 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&amp;G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 623.626 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARK	154	12.25	40.2
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020013	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111,020534
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	463,067.8437	
<b>Easting (M)</b>	418,893.3668	
<b>Elevation (M)*</b>	52.071	
<b>Northing (SFT)</b>	1,519,248.4172	
<b>Easting (SFT)</b>	1,374,319.3209	
<b>Elevation (SFT)*</b>	170.837	

  

<b>Convergence Angle</b>	0	6	48.4289527
<b>Scale Factor</b>	1.000015025		
<b>Elevation Adjust. Factor</b>	0.9999918284		
<b>Combined Adjust. Factor</b>	1.0000068533		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRON POST TO CHURCH OF CHRIST SIGN	228	4.85	15.9
<b>MK # 2</b>	GUY POLE	305	10.70	35.1
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 100%;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 100%;" type="text" value="S 197"/> <b>Ref Mon # 3</b> <input style="width: 100%;" type="text" value="AHTD MON 1"/>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 0.56 KM (0.35 MI) TO THE CHURCH OF CHRIST AND THE STATION ON THE LEFT. THE STATION IS 11.20 METERS SOUTH OF THE CENTER OF WEST FOOTE STREET, 10.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 476.959 METERS.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	33 14 6.4104576
<b>Longitude</b>	91 47 50.2595160
<b>Ellipsoid Height (M):</b>	26.394
<b>Geoid Height (M):</b>	-25.699

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020013A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111,020534
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	463,539.6105		
<b>Easting (M)</b>	418,963.6056		
<b>Elevation (M)*</b>	51.072		
<b>Northing (SFT)</b>	1,520,796.2054		
<b>Easting (SFT)</b>	1,374,549.7627		
<b>Elevation (SFT)*</b>	167.559		

  

<b>Convergence Angle</b>	0	6	49.9676127
<b>Scale Factor</b>	1.000014002		
<b>Elevation Adjust. Factor</b>	0.9999919852		
<b>Combined Adjust. Factor</b>	1.0000059871		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE MAN HOLE COVER	19	17.50	57.4
MK # 2	TELEPHONE JUNCTION BOX	12	18.85	61.8
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/> <b>Ref Mon # 2</b> <input type="text" value="S 197"/> <b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	33 14 21.7188240
<b>Longitude</b>	91 47 47.5103904
<b>Ellipsoid Height (M):</b>	25.390
<b>Geoid Height (M):</b>	-25.695

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 1.05 KM (0.65 MI) TO THE HAMBURG SENIOR CITIZENS CENTER AND THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS SOUTH OF THE CENTER OF A PAVED ROAD, 11.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 476.959 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020014	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321, 020771
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,779.2537	
<b>Easting (M)</b>	434,793.9794	
<b>Elevation (M)*</b>	53.478	
<b>Northing (SFT)</b>	1,541,267.4348	
<b>Easting (SFT)</b>	1,426,486.5807	
<b>Elevation (SFT)*</b>	175.451	

  

<b>Convergence Angle</b>	0	12	32.6888689
<b>Scale Factor</b>	1.000001068		
<b>Elevation Adjust. Factor</b>	0.9999916077		
<b>Combined Adjust. Factor</b>	0.9999926757		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 13.13 KM (8.16 MI) TO THE STATION ON THE RIGHT SET IN THE SOUTHWEST CORNER OF A CEMETERY. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 3.45 METERS NORTH OF A WITNESS POST SET IN A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 467.582 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	POWER POLE = TBM 904	117	16.95	55.6	
<b>MK # 2</b>	CONCRETE R/W MARKER	19	0.30	1.0	
<b>MK # 3</b>	CORNER OF CHAIN LINK FENCE	270	11.47	37.6	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    AHTD MON 1</p> <p><b>Ref Mon # 3</b>    82 V 10W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020014A	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321, 020771
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,634.4856	
<b>Easting (M)</b>	435,238.5795	
<b>Elevation (M)*</b>	53.400	
<b>Northing (SFT)</b>	1,540,792.4748	
<b>Easting (SFT)</b>	1,427,945.2396	
<b>Elevation (SFT)*</b>	175.197	

  

<b>Convergence Angle</b>	0	12	42.2951223
<b>Scale Factor</b>	1.000001363		
<b>Elevation Adjust. Factor</b>	0.9999916199		
<b>Combined Adjust. Factor</b>	0.9999929829		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 12.63 KM (7.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 4.80 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 467.582 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST CORNER OF MOBIL HOME	171	11.60	38.1
<b>MK # 2</b>	NORTHEAST CORNER OF MOBIL HOME	150	13.30	43.6
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    AHTD MON 1</p> <p><b>Ref Mon # 3</b>    82 V 10W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020015 Reset	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321
--------------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,834.1191	
<b>Easting (M)</b>	440,317.1150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,541,447.4391	
<b>Easting (SFT)</b>	1,444,607.0681	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	32.1730774
<b>Scale Factor</b>	1.000001001		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 7.10 KM (4.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020015RESET 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	UNDERGROUND CABLE MARKER		153.00	502.0	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    020014, 090014, 090015</p> <p><b>Ref Mon # 2</b>    090014A, 020014A</p> <p><b>Ref Mon # 3</b>    82 V 10W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020016	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321,020260
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,378.9389	
<b>Easting (M)</b>	444,310.6081	
<b>Elevation (M)*</b>	39.720	
<b>Northing (SFT)</b>	1,543,234.9020	
<b>Easting (SFT)</b>	1,457,709.0534	
<b>Elevation (SFT)*</b>	130.316	

  

<b>Convergence Angle</b>	0	15	58.6172016
<b>Scale Factor</b>	0.999999945		
<b>Elevation Adjust. Factor</b>	0.9999937666		
<b>Combined Adjust. Factor</b>	0.9999937116		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.88 KM (1.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 662.935 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	184	2.95	9.7
MK # 2	POWER POLE	231	11.20	36.7
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: AHTD MON 1</p> <p>Ref Mon # 3: 82 V 10W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020016A	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321,020260
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,307.3651	
<b>Easting (M)</b>	444,969.6668	
<b>Elevation (M)*</b>	39.113	
<b>Northing (SFT)</b>	1,543,000.0803	
<b>Easting (SFT)</b>	1,459,871.3152	
<b>Elevation (SFT)*</b>	128.323	

  

<b>Convergence Angle</b>	0	16	12.8677864
<b>Scale Factor</b>	1.000000094		
<b>Elevation Adjust. Factor</b>	0.9999938620		
<b>Combined Adjust. Factor</b>	0.9999939560		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	180	2.05	6.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="AHTD MON 1"/>	
<b>Ref Mon # 3</b> <input type="text" value="82 V 10W"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 17 58.5610116
<b>Longitude</b>	91 31 1.7759964
<b>Ellipsoid Height (M):</b>	13.350
<b>Geoid Height (M):</b>	-25.837

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.22 KM (1.38 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 662.935 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020017	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,078.6811	
<b>Easting (M)</b>	407,023.0460	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,509,441.4729	
<b>Easting (SFT)</b>	1,335,374.7768	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	31.7739127
<b>Scale Factor</b>	1.000021599		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 14.886 KM (9.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, 4.25 METERS NORTH OF THE CENTER OF A PAVED CHURCH DRIVE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020017 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 542.813 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	179	19.34	63.5
<b>MK # 2</b>	LIGHT POLE	203	22.45	73.7
<b>MK # 3</b>	NORTH END CORRIGATED METAL PIPE	108	2.60	8.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    060013</p> <p><b>Ref Mon # 2</b>    020009</p> <p><b>Ref Mon # 3</b>    FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020017A	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,620.9560	
<b>Easting (M)</b>	407,047.3070	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,511,220.5865	
<b>Easting (SFT)</b>	1,335,454.3730	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	32.3068683
<b>Scale Factor</b>	1.000020384		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 14.339 KM (8.91 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.75 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, 9.00 METERS NORTH OF THE CENTER OF BETHEL ROAD, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020017A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 542.813 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	FIRE HYDRANT	95	8.00	26.2	
<b>MK # 2</b>	WATER VALVE COVER	58	6.90	22.6	
<b>MK # 3</b>	NORTH END CORRIGATED METAL PIPE	221	4.75	15.6	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    060013</p> <p><b>Ref Mon # 2</b>    020009</p> <p><b>Ref Mon # 3</b>    FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020018	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	467,373.1070	
<b>Easting (M)</b>	406,997.5780	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,533,373.2685	
<b>Easting (SFT)</b>	1,335,291.2205	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	31.3391908
<b>Scale Factor</b>	1.000005854		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 7.644 KM (4.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.50 METERS SOUTH OF LEXIE WOODS ROAD, 12.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020018 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 448.208 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD CORNER POST	356	19.25	63.2
MK # 2	SOUTH END CORRIGATED METAL PIPE	8	27.85	91.4
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 060013</p> <p>Ref Mon # 2: 020009</p> <p>Ref Mon # 3: FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020018A	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	466,925.6650	
<b>Easting (M)</b>	407,023.7020	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,531,905.2859	
<b>Easting (SFT)</b>	1,335,376.9290	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	31.8970565
<b>Scale Factor</b>	1.000006783		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 8.111 KM (5.04 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, 5.50 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020018A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 448.208 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CORRIGATED METAL PIPE	338	9.70	31.8
<b>MK # 2</b>	NORTH END CORRIGATED METAL PIPE	228	3.15	10.3
<b>MK # 3</b>	CROSS TIE FENCE POST	164	9.50	31.2

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	060013	
<b>Ref Mon # 2</b>	020009	
<b>Ref Mon # 3</b>	FOUNTAIN AZ	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020019	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	472,461.2320	
<b>Easting (M)</b>	408,632.2380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,550,066.5587	
<b>Easting (SFT)</b>	1,340,654.2675	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	6.7922205
<b>Scale Factor</b>	0.999995643		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 2.012 KM (1.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.25 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020019 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 673.283 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	343	7.55	24.8
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    060013</p> <p>Ref Mon # 2    020009</p> <p>Ref Mon # 3    FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020019A	<b>Date Monumented</b> 12/17/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020339
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	471,788.2500	
<b>Easting (M)</b>	408,612.1640	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,547,858.6169	
<b>Easting (SFT)</b>	1,340,588.4081	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	6.3446840
<b>Scale Factor</b>	0.999996958		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 2.655 KM (1.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 30.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020019A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 673.283 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	2	26.55	87.1
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	020019
<b>Geodetic Azimuth</b>	1 45 37
<b>Grid Azimuth</b>	1 42 31

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020020	<b>Date Monumented</b> 3/5/2002	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> 001941
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	476,468.6591	
<b>Easting (M)</b>	406,536.4460	
<b>Elevation (M)*</b>	33.205	
<b>Northing (SFT)</b>	1,563,214.2591	
<b>Easting (SFT)</b>	1,333,778.3233	
<b>Elevation (SFT)*</b>	108.940	

  

<b>Convergence Angle</b>	0	2	21.5010704
<b>Scale Factor</b>	0.999988042		
<b>Elevation Adjust. Factor</b>	0.9999947891		
<b>Combined Adjust. Factor</b>	0.9999828311		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	85	4.20	13.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 060013	
Ref Mon # 2 020009	
Ref Mon # 3 FOUNTAIN AZ	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 21.9191220
<b>Longitude</b>	91 55 47.1798732
<b>Ellipsoid Height (M):</b>	7.728
<b>Geoid Height (M):</b>	-25.702

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8, LOCATED ABOUT 4.00 MILES WEST OF FOUNTAIN HILL, GO NORTHWEST ON STATE HIGHWAY 8 FOR 1.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 8, 6.60 METERS NORTH OF A GRAVEL ENTRANCE TO A PIPE LINE RIGHT OF WAY, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.</p>

<b>AZ Mark Station</b>	020020A
<b>Geodetic Azimuth</b>	141 05 42
<b>Grid Azimuth</b>	141 03 21

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020020A	<b>Date Monumented</b> 3/5/2002	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> 001941
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	475,943.7913	
<b>Easting (M)</b>	406,797.8059	
<b>Elevation (M)*</b>	34.192	
<b>Northing (SFT)</b>	1,561,492.2553	
<b>Easting (SFT)</b>	1,334,635.8015	
<b>Elevation (SFT)*</b>	112.178	

  

<b>Convergence Angle</b>	0	2	27.1508846
<b>Scale Factor</b>	0.999989015		
<b>Elevation Adjust. Factor</b>	0.9999946342		
<b>Combined Adjust. Factor</b>	0.9999836492		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8, LOCATED ABOUT 4.00 MILES WEST OF FOUNTAIN HILL, GO NORTHWEST ON STATE HIGHWAY 8 FOR 1.54 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.00 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, 11.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 8, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020020A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	313	24.20	79.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    060013</p> <p>Ref Mon # 2    020009</p> <p>Ref Mon # 3    FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020021	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> 020383
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,165.0100	
<b>Easting (M)</b>	425,402.7030	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,503,163.0370	
<b>Easting (SFT)</b>	1,395,675.3681	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	8.8624718
<b>Scale Factor</b>	1.000026017		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND U.S. HIGHWAY 425 IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 5.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8, 5.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORRIGATED METAL PIPE	338	1.40	4.6	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BUTLER, 480016</p> <p>Ref Mon # 2: VICKSBURG CORS</p> <p>Ref Mon # 3: WINNFIELD CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020021A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> 020383
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,231.2130	
<b>Easting (M)</b>	425,907.5730	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,503,380.2380	
<b>Easting (SFT)</b>	1,397,331.7624	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	19.7747544
<b>Scale Factor</b>	1.000025868		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND U.S. HIGHWAY 425 IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 5.86 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 8.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8, AND 4.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> BUTLER, 480016</p> <p><b>Ref Mon # 2</b> VICKSBURG CORS</p> <p><b>Ref Mon # 3</b> WINNFIELD CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020022	<b>Date Monumented</b> 7/31/2003	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020399,020534
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		<b>Geoid Datum:</b>
<b>Northing (M)</b>	451,987.6690	<b>Latitude</b>
<b>Easting (M)</b>	409,749.5284	<b>Longitude</b>
<b>Elevation (M)*</b>	46.419	<b>Ellipsoid Height (M):</b>
<b>Northing (SFT)</b>	1,482,896.2107	<b>Geoid Height (M):</b>
<b>Easting (SFT)</b>	1,344,319.9111	
<b>Elevation (SFT)*</b>	152.293	

  

<b>Convergence Angle</b>	0	3	30.5169909
<b>Scale Factor</b>	1.000040590		
<b>Elevation Adjust. Factor</b>	0.9999927154		
<b>Combined Adjust. Factor</b>	1.0000333051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK GATE POST	120	12.20	40.0
MK # 2	MAILBOX 1016	288	24.00	78.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020022A	<b>Date Monumented</b> 7/31/2003	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020399,020534
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>		
<b>Northing (M)</b>	452,001.3024	
<b>Easting (M)</b>	409,111.5436	
<b>Elevation (M)*</b>	45.680	
<b>Northing (SFT)</b>	1,482,940.9396	
<b>Easting (SFT)</b>	1,342,226.7893	
<b>Elevation (SFT)*</b>	149.869	

  

<b>Convergence Angle</b>	0	3	16.7415747
<b>Scale Factor</b>	1.000040555		
<b>Elevation Adjust. Factor</b>	0.9999928314		
<b>Combined Adjust. Factor</b>	1.0000333861		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 52,82, AND 425, EAST OF CROSSETT, GO WEST ON HIGHWAY 82 4.55 MILES TO THE STATION ON THE LEFT, SOUTH 10.75 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020022A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	100	33.40	109.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Vicksburg 1 C.O.R.S.</p> <p><b>Ref Mon # 2</b>    IULM C.O.R.S.</p> <p><b>Ref Mon # 3</b>    020008</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020023	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,372.7061	
<b>Easting (M)</b>	444,309.1500	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,543,214.4533	
<b>Easting (SFT)</b>	1,457,704.2696	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	58.5850300
<b>Scale Factor</b>	0.999999957		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	265	7.30	24.0
MK # 2	COMBINATION POLE	165	8.10	26.6
MK # 3				

  

<b>AZ Mark Station</b>	020023A
<b>Geodetic Azimuth</b>	96 09 45
<b>Grid Azimuth</b>	95 53 46

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	020014, 090014, 090015
<b>Ref Mon # 2</b>	090014A, 020014A
<b>Ref Mon # 3</b>	82 V 10W

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020023A	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,302.4151	
<b>Easting (M)</b>	444,989.7730	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,542,983.8402	
<b>Easting (SFT)</b>	1,459,937.2803	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	16	13.3022504
<b>Scale Factor</b>	1.000000104		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	119	8.30	27.2
<b>MK # 2</b>	TELEPHONE POLE	277	20.50	67.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 020014, 090014, 090015	
<b>Ref Mon # 2</b> 090014A, 020014A	
<b>Ref Mon # 3</b> 82 V 10W	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 17 58.3972620
<b>Longitude</b>	91 31 0.9997392
<b>Ellipsoid Height (M):</b>	13.306
<b>Geoid Height (M):</b>	-25.837

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.22 KM (1.38 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.95 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020023A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020024	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020321
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,394.1231	
<b>Easting (M)</b>	439,616.0850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,540,003.8855	
<b>Easting (SFT)</b>	1,442,307.1055	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	16.9684499
<b>Scale Factor</b>	1.000001883		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	70	4.70	15.4
MK # 2	GUY	94	5.40	17.7
MK # 3				

  

<b>AZ Mark Station</b>	020015 RESET
<b>Geodetic Azimuth</b>	58 07 26
<b>Grid Azimuth</b>	57 53 09

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	020014, 090014, 090015
<b>Ref Mon # 2</b>	090014A, 020014A
<b>Ref Mon # 3</b>	82 V 10W

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020025	<b>Date Monumented</b> 11/17/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020240
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,738.4869	
<b>Easting (M)</b>	403,863.8770	
<b>Elevation (M)*</b>	49.002	

  

<b>Northing (SFT)</b>	1,475,517.0191	
<b>Easting (SFT)</b>	1,325,010.0698	
<b>Elevation (SFT)*</b>	160.767	

  

<b>Convergence Angle</b>	0	1	23.4112688
<b>Scale Factor</b>	1.000046140		
<b>Elevation Adjust. Factor</b>	0.9999923100		
<b>Combined Adjust. Factor</b>	1.0000384497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	233	9.50	31.2
<b>MK # 2</b>	Gas meter	330	30.50	100.1
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	020002
<b>Geodetic Azimuth</b>	342 46 29
<b>Grid Azimuth</b>	342 45 05

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	020002,LA 1
<b>Ref Mon # 2</b>	CSAL
<b>Ref Mon # 3</b>	IULM

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020026	<b>Date Monumented</b> 11/17/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020240
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	443,281.7070	
<b>Easting (M)</b>	405,831.9370	
<b>Elevation (M)*</b>	49.059	
<b>Northing (SFT)</b>	1,454,333.4004	
<b>Easting (SFT)</b>	1,331,466.9466	
<b>Elevation (SFT)*</b>	160.954	

  

<b>Convergence Angle</b>	0	2	5.8116451
<b>Scale Factor</b>	1.000062792		
<b>Elevation Adjust. Factor</b>	0.9999923011		
<b>Combined Adjust. Factor</b>	1.0000550926		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 4.55 miles to the station on the left. 11.30 meters east of the center of hwy-133 and 0.50 meters west of a witness post. The station mark is a standard 64mm cap stamped "020026 2005" set on top of an iron rod 1.22 meters long and is just below the ground surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 020002,LA 1</p> <p>Ref Mon # 2: CSAL</p> <p>Ref Mon # 3: IULM</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020026A	<b>Date Monumented</b> 11/17/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020240
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	442,796.2419	
<b>Easting (M)</b>	405,808.9940	
<b>Elevation (M)*</b>	48.043	
<b>Northing (SFT)</b>	1,452,740.6703	
<b>Easting (SFT)</b>	1,331,391.6745	
<b>Elevation (SFT)*</b>	157.621	

  

<b>Convergence Angle</b>	0	2	5.3103373
<b>Scale Factor</b>	1.000064085		
<b>Elevation Adjust. Factor</b>	0.9999924605		
<b>Combined Adjust. Factor</b>	1.0000565451		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 4.85 miles to the station on the right. 12.00 meters west of the center of hwy-133 and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "020026A 2005" set on top of an iron rod 1.22 meters long and is just below the ground surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 020002,LA 1</p> <p>Ref Mon # 2: CSAL</p> <p>Ref Mon # 3: IULM</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020027	<b>Date Monumented</b> 11/17/2005	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 133	<b>Job Number:</b> 020240
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	437,957.5138	
<b>Easting (M)</b>	406,291.7270	
<b>Elevation (M)*</b>	34.706	
<b>Northing (SFT)</b>	1,436,865.6099	
<b>Easting (SFT)</b>	1,332,975.4410	
<b>Elevation (SFT)*</b>	113.865	

  

<b>Convergence Angle</b>	0	2	15.6550949
<b>Scale Factor</b>	1.000077286		
<b>Elevation Adjust. Factor</b>	0.9999945535		
<b>Combined Adjust. Factor</b>	1.0000718391		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 7.95 miles to the station on the left 0.10 mile north of the Arkansas and Louisiana state line. 14.30 meters east of the center of hwy-133 and 0.50 meters west of a witness post. The station mark is a standard 64mm cap stamped "020027 2005" set on top of an iron rod 1.22 meters long and is just below the ground surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	power pole with guy	337	10.60	34.8		LA 1
MK # 2						173 27 26
MK # 3						173 25 10

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<div style="border: 1px solid black; height: 150px; width: 100%;"></div>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020028	<b>Date Monumented</b> 11/10/2010	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 65	<b>Job Number:</b> 020509, 020675
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,020.9961	0.0020	
<b>Easting (M)</b>	447,160.3902	0.0020	
<b>Elevation (M)*</b>	38.673		
<b>Northing (SFT)</b>	1,542,060.5514		
<b>Easting (SFT)</b>	1,467,058.7135		
<b>Elevation (SFT)*</b>	126.880		

  

<b>Convergence Angle</b>	0	17	0.2302076
<b>Scale Factor</b>	1.000000689		
<b>Elevation Adjust. Factor</b>	0.9999939310		
<b>Combined Adjust. Factor</b>	0.9999946200		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	17	48.9222456
<b>Longitude</b>	91	29	37.1545188
<b>Ellipsoid Height:</b>	12.738		
<b>Grid Northing (Meters)</b>	470,020.9920		
<b>Grid Easting (Meters)</b>	447,160.3640		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Mile marker 20	23	36.88	121.0
MK # 2	Southwest corner of post office	85	31.09	102.0
MK # 3	Power pole with light	125	21.95	72.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	Elev established by crew s5105 from USGS 3rd order BM 11LMT 1977 converted to NAVD 88 in February 2011 for project 020509 *****SUPERCEDED GEOID HT. IS -25.858m REF. MONUMENTS ARE 82 V 10W, CSAL & MSCL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM, MSGN	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33   17   48.9223716
<b>Longitude</b>	91   29   37.1535036
<b>Ellipsoid Height (M):</b>	12.576   0.0190
<b>Geoid Height (M):</b>	-25.946   0.0190

Location Description
To reach the station from the junction of Highway 165 and highway 82B in Montrose, go south 0.07 miles to the station on the right across the street from the post office, 35.5 feet west of the centerline of highway 165, 36 feet east of the east rail of the main railroad line, 5 feet west of the ditch back, 5 feet west of the witness post. The station is a standard aluminum cap set on top of a 4 foot rebar stamped "020028 2010" and driven 0.2 feet below the ground level.

<b>AZ Mark Station</b>	020028A
<b>Geodetic Azimuth</b>	0 33 21
<b>Grid Azimuth</b>	0 16 21

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020028A	<b>Date Monumented</b> 11/10/2010	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 165	<b>Job Number:</b> 020509, 020675
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,562.0733	0.0020	
<b>Easting (M)</b>	447,162.9454	0.0020	
<b>Elevation (M)*</b>	37.164		

  

<b>Northing (SFT)</b>	1,543,835.7355		
<b>Easting (SFT)</b>	1,467,067.0967		
<b>Elevation (SFT)*</b>	121.930		

  

<b>Convergence Angle</b>	0	17	0.3433857
<b>Scale Factor</b>	0.999999606		
<b>Elevation Adjust. Factor</b>	0.9999941677		
<b>Combined Adjust. Factor</b>	0.9999937737		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	18	6.4840392
<b>Longitude</b>	91	29	36.9516156
<b>Ellipsoid Height:</b>	11.220		
<b>Grid Northing (Meters)</b>	470,562.0601		
<b>Grid Easting (Meters)</b>	447,162.9370		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with light and utility pole	53	24.38	80.0
MK # 2	South end of a 18" plastic pipe	98	24.38	80.0
MK # 3	North west corner of a brick home	119	45.72	150.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	Elev established by crew s5105 from USGS 3rd order BM 11LMT 1977 converted to NAVD 88 in February 2011 for project 020509 *****SUPERCEDED GEOID HT. IS -25.858m REF. MONUMENTS ARE 82 V 10W, CSAL & MSCL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020029	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	438,164.8822	
<b>Easting (M)</b>	413,504.3425	
<b>Elevation (M)*</b>	47.398	
<b>Northing (SFT)</b>	1,437,545.9510	
<b>Easting (SFT)</b>	1,356,638.8304	
<b>Elevation (SFT)*</b>	155.507	

  

<b>Convergence Angle</b>	0	4	51.1715061
<b>Scale Factor</b>	1.000076730		
<b>Elevation Adjust. Factor</b>	0.9999925617		
<b>Combined Adjust. Factor</b>	1.0000692911		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	County Road A-2-E	185	25.10	82.3
<b>MK # 2</b>	Fiber Optic Cable Marker	135	9.75	32.0
<b>MK # 3</b>	Power Pole		13.40	44.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020029A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	438,675.9118	
<b>Easting (M)</b>	413,529.5976	
<b>Elevation (M)*</b>	47.249	
<b>Northing (SFT)</b>	1,439,222.5540	
<b>Easting (SFT)</b>	1,356,721.6881	
<b>Elevation (SFT)*</b>	155.017	

  

<b>Convergence Angle</b>	0	4	51.7316244
<b>Scale Factor</b>	1.000075311		
<b>Elevation Adjust. Factor</b>	0.9999925851		
<b>Combined Adjust. Factor</b>	1.0000678955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Logging Road	10	4.27	14.0
MK # 2	Center of a Double Metal Gate	305	21.34	70.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020030	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	443,002.0087		
<b>Easting (M)</b>	414,324.4590		
<b>Elevation (M)*</b>	37.431		
<b>Northing (SFT)</b>	1,453,415.7569		
<b>Easting (SFT)</b>	1,359,329.4959		
<b>Elevation (SFT)*</b>	122.805		

  

<b>Convergence Angle</b>	0	5	9.0105251
<b>Scale Factor</b>	1.000063560		
<b>Elevation Adjust. Factor</b>	0.9999941259		
<b>Combined Adjust. Factor</b>	1.0000576855		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CMP		270		4.88	16.0
MK # 2	CL of county road A-261		355		4.27	14.0
MK # 3	Fiber Optic Cable Marker		210		17.98	59.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020030A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	443,466.5892	
<b>Easting (M)</b>	414,345.8431	
<b>Elevation (M)*</b>	39.024	
<b>Northing (SFT)</b>	1,454,939.9681	
<b>Easting (SFT)</b>	1,359,399.6536	
<b>Elevation (SFT)*</b>	128.031	

  

<b>Convergence Angle</b>	0	5	9.4868644
<b>Scale Factor</b>	1.000062325		
<b>Elevation Adjust. Factor</b>	0.9999938759		
<b>Combined Adjust. Factor</b>	1.0000562005		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
Starting at the Arkansas state line go North on highway 425 for 3.7 miles to the station on the right. The station is a standard alum. cap stamped (020030A-2011) and set on a 4 foot long 5/8" rebar. It is 33 foot East of the CL of highway 425 and 2 foot South of a witness post. And as described above. Lan. 33.03 30 Lon. 091.50 47				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Woods Entrance	175	3.35	11.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012                 </td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020031	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	447,991.5381		
<b>Easting (M)</b>	415,235.9537		
<b>Elevation (M)*</b>	42.171		
<b>Northing (SFT)</b>	1,469,785.5712		
<b>Easting (SFT)</b>	1,362,319.9581		
<b>Elevation (SFT)*</b>	138.357		

  

<b>Convergence Angle</b>	0	5	28.8450675
<b>Scale Factor</b>	1.000050573		
<b>Elevation Adjust. Factor</b>	0.9999933820		
<b>Combined Adjust. Factor</b>	1.0000439547		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	310	10.97	36.0
MK # 2	Extened CL of Woods Entrance	40	25.30	83.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020031A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	448,372.4081		
<b>Easting (M)</b>	415,573.4409		
<b>Elevation (M)*</b>	38.970		
<b>Northing (SFT)</b>	1,471,035.1422		
<b>Easting (SFT)</b>	1,363,427.1974		
<b>Elevation (SFT)*</b>	127.853		

  

<b>Convergence Angle</b>	0	5	36.1426035
<b>Scale Factor</b>	1.000049608		
<b>Elevation Adjust. Factor</b>	0.9999938844		
<b>Combined Adjust. Factor</b>	1.0000434921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	130	3.35	11.0	
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020032	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,838.7954	
<b>Easting (M)</b>	417,138.8522	
<b>Elevation (M)*</b>	46.787	
<b>Northing (SFT)</b>	1,495,531.1146	
<b>Easting (SFT)</b>	1,368,563.0509	
<b>Elevation (SFT)*</b>	153.500	

  

<b>Convergence Angle</b>	0	6	10.2201769
<b>Scale Factor</b>	1.000031378		
<b>Elevation Adjust. Factor</b>	0.9999926577		
<b>Combined Adjust. Factor</b>	1.0000240354		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Extended CL of Highway 52	10	13.10	43.0
<b>MK # 2</b>	Light Pole	130	23.77	78.0
<b>MK # 3</b>	Concrete Island	90	1.98	6.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020032A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,872.9730	
<b>Easting (M)</b>	416,607.4290	
<b>Elevation (M)*</b>	44.706	
<b>Northing (SFT)</b>	1,495,643.2456	
<b>Easting (SFT)</b>	1,366,819.5400	
<b>Elevation (SFT)*</b>	146.673	

  

<b>Convergence Angle</b>	0	5	58.7420941
<b>Scale Factor</b>	1.000031296		
<b>Elevation Adjust. Factor</b>	0.9999929842		
<b>Combined Adjust. Factor</b>	1.0000242800		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	C.M.P.	205	3.35	11.0
MK # 2	Gravel Driveway	265	4.27	14.0
MK # 3	Fire Hydrant	80	17.98	59.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020033	<b>Date Monumented</b> 10/5/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	458,376.3139		
<b>Easting (M)</b>	418,190.6107		
<b>Elevation (M)*</b>	50.076		
<b>Northing (SFT)</b>	1,503,856.2899		
<b>Easting (SFT)</b>	1,372,013.6953		
<b>Elevation (SFT)*</b>	164.291		

  

<b>Convergence Angle</b>	0	6	33.0438438
<b>Scale Factor</b>	1.000025495		
<b>Elevation Adjust. Factor</b>	0.9999921415		
<b>Combined Adjust. Factor</b>	1.0000176363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
Starting at the 425 & 82 junction in Hamburg go south on the Combined highway for 2.5 miles to the station on the right. The station is a standard alum. cap stamped(020033-2011) and is set on a 4 foot 5/8" rebar. It is 55 foot West of the CL of 425 and is 2 foot North of a witness post. Lat. 33.11 34 Lon. 091.48 18				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of a gravel drive to church		6.09	20.0
MK # 2	C.M.P.		3.05	10.0
MK # 3	12" red oak		30.18	99.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020033A	<b>Date Monumented</b> 10/5/2011	<b>Monumented By</b> AHTD	<b>County</b> Ashley	<b>Route</b> 425	<b>Job Number:</b> 020534
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,974.2966	
<b>Easting (M)</b>	418,580.9921	
<b>Elevation (M)*</b>	54.857	
<b>Northing (SFT)</b>	1,505,818.1714	
<b>Easting (SFT)</b>	1,373,294.4716	
<b>Elevation (SFT)*</b>	179.977	

  

<b>Convergence Angle</b>	0	6	41.5039289
<b>Scale Factor</b>	1.000024132		
<b>Elevation Adjust. Factor</b>	0.9999913912		
<b>Combined Adjust. Factor</b>	1.0000155230		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole		24.70	81.0	
MK # 2	Power Pole and U.M.		21.60	70.9	
MK # 3	6" blazed pine tree		10.00	32.8	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020034	<b>Date Monumented</b> 4/2/2018	<b>Monumented By</b> AR DOT S5101	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020676
--------------------------	------------------------------------	--------------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	467,341.4750 0.0020
<b>Easting (M)</b>	428,400.0823 0.0020
<b>Elevation (M)*</b>	52.109 0.0023
<b>Northing (SFT)</b>	1,533,269.4892
<b>Easting (SFT)</b>	1,405,509.2700
<b>Elevation (SFT)*</b>	170.961

  

<b>Convergence Angle</b>	0 10 14.2152722
<b>Scale Factor</b>	1.000006002
<b>Elevation Adjust. Factor</b>	0.9999918225
<b>Combined Adjust. Factor</b>	0.9999978244

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>				3rd Order - Digital Levels			
<b>Elevation Datum:</b>				NAVD 88			
<b>Geoid Datum:</b>				GEOID12B			
<b>Latitude</b>				33	16	24.3616440	
<b>Longitude</b>				91	41	42.5808600	
<b>Ellipsoid Height (M):</b>				26.299		0.0030	
<b>Geoid Height (M):</b>				-25.807			

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 6.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 15 FEET EAST OF THE CENTER OF A DIRT FIELD ENTRANCE, 36 FEET NORTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.</p>

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	UTILITY MARKER (PHONE)		65	6.25	20.5
<b>MK # 2</b>	POWER POLE		355	9.60	31.5
<b>MK # 3</b>	IRRIGATION WELL		15	20.88	68.5

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> ARMO</p> <p><b>Ref Mon # 2</b> MSGN</p> <p><b>Ref Mon # 3</b> IULM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020034A	<b>Date Monumented</b> 4/2/2018	<b>Monumented By</b> AR DOT S5101	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> 020676
---------------------------	------------------------------------	--------------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	467,408.6486 0.0020
<b>Easting (M)</b>	428,768.1511 0.0020
<b>Elevation (M)*</b>	53.512 0.0023
<b>Northing (SFT)</b>	1,533,489.8746
<b>Easting (SFT)</b>	1,406,716.8424
<b>Elevation (SFT)*</b>	175.562

  

<b>Convergence Angle</b>	0 10 22.1799169
<b>Scale Factor</b>	1.000005865
<b>Elevation Adjust. Factor</b>	0.9999916024
<b>Combined Adjust. Factor</b>	0.9999974673

  

SUPERCEDDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>				3rd Order - 3 Wire Levels			
<b>Elevation Datum:</b>				NAVD 88			
<b>Geoid Datum:</b>				GEOID12B			
<b>Latitude</b>				33	16	26.5062000	
<b>Longitude</b>				91	41	28.3504200	
<b>Ellipsoid Height (M):</b>				27.702		0.0000	
<b>Geoid Height (M):</b>				-25.810			

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 7.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 40 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 85 FEET WEST OF THE CENTER OF A GRAVEL ROAD (ASHLEY COUNTY 912) , 5 FEET SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034A 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.</p>

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	GUY POLE		290	2.13	7.0	020034
MK # 2	TELEPHONE BOX		240	10.05	33.0	
MK # 3	DOUBLE GUY WIRE		200	5.79	19.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARMO <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> IULM	April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020035	<b>Date Monumented</b> 6/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> HWY 8 DRAINAGE STUDY
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	479,051.6402	0.0020			
<b>Easting (M)</b>	404,763.8013	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,571,688.5896				
<b>Easting (SFT)</b>	1,327,962.5714				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	1	43.1548069
<b>Scale Factor</b>	0.999983350		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM</td> </tr> </table>	Ref Mon # 1	ARMO	Ref Mon # 2	ARCM	Ref Mon # 3	IULM	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARMO						
Ref Mon # 2	ARCM						
Ref Mon # 3	IULM						

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12B

**Latitude** 33 22 45.7939992

**Longitude** 91 56 55.6931868

**Ellipsoid Height (M):** 5.175 0.0420

**Geoid Height (M):** -25.815 0.0420

  

**Location Description**

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 0.3 MILES TO THE STATION ON THE RIGHT. 21' NORTH OF THE C/L OF SR-8. 34.7' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "220035 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020035A	<b>Date Monumented</b> 6/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> ASHLEY	<b>Route</b> 8	<b>Job Number:</b> HWY 8 DRAINAGE STUDY
---------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	478,997.7928	0.0030			
<b>Easting (M)</b>	405,214.3285	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,571,511.9252				
<b>Easting (SFT)</b>	1,329,440.6761				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	1	52.9098314
<b>Scale Factor</b>	0.999983447		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	4	44.50	146.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARMO	
Ref Mon # 2 ARCM	
Ref Mon # 3 IULM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 22 44.0385132
<b>Longitude</b>	91 56 38.2638732
<b>Ellipsoid Height (M):</b>	4.907 0.0420
<b>Geoid Height (M):</b>	-25.811 0.0420

Location Description
<p>"THE STATION MARK IS ON THE NORTH SIDE THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL. 98' SOUTH OF THE C/L OF SR-8. 31' WEST OF THE C/L OF SR-160. THE MARK IS A STANDARD 2½" CAP STAMPED "220035A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020036	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> ASHLEY	<b>Route</b> US-82	<b>Job Number:</b> 020675, 020772
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	470,372.7221	0.0020
<b>Easting (M)</b>	444,309.2335	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	1,543,214.5058	
<b>Easting (SFT)</b>	1,457,704.5436	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	58.5868393
<b>Scale Factor</b>	0.999999957		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	255	7.31	24.0
MK # 2	TELEPHONE BOX	255	7.62	25.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARCM"/>	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 <input type="text" value="ARMO"/>	
Ref Mon # 3 <input type="text" value="IULM, MSGN"/>	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 18 0.7827660
<b>Longitude</b>	91 31 27.2917812
<b>Ellipsoid Height (M):</b>	13.454 0.0190
<b>Geoid Height (M):</b>	-25.917 0.0190

  

Location Description
020036 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO WEST ON US-82 1.8 MILES TO STATION ON LEFT. 53' SOUTH OF C/L US-82. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "020036 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020036A	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> ASHLEY	<b>Route</b> US-82	<b>Job Number:</b> 020675, 020772
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	470,302.4362	0.0020
<b>Easting (M)</b>	444,989.2667	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,542,983.9094	
<b>Easting (SFT)</b>	1,459,935.6192	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	16	13.2912974
<b>Scale Factor</b>	1.000000104		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	130	8.84	29.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030001	<b>Date Monumented</b> 6/21/1994	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 9952,090319,012231,090647
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	221,903.3108 0.0020
<b>Easting (M)</b>	366,531.4334 0.0020
<b>Elevation (M)*</b>	230.145 0.0047
<b>Northing (SFT)</b>	728,027.7788
<b>Easting (SFT)</b>	1,202,528.5444
<b>Elevation (SFT)*</b>	755.069

  

<b>Convergence Angle</b>	0 13 0.8789946
<b>Scale Factor</b>	1.000021194
<b>Elevation Adjust. Factor</b>	0.9999638840
<b>Combined Adjust. Factor</b>	0.9999850772

  

SUPERCEDDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	19	58.2941424
<b>Longitude</b>	92	22	21.9496332
<b>Ellipsoid Height:</b>	201.742		
<b>Grid Northing (Meters)</b>	221,903.3103		
<b>Grid Easting (Meters)</b>	366,531.4194		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" CORNER POST IN CHAIN LINK FENCE	2	2.70	8.9
MK # 2	NBC IN COMBINATION POLE	276	18.60	61.0
MK # 3	NBC IN COMBINATION POLE	81	24.90	81.7

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>HOMEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>FLIPPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	HOMEPORT	Ref Mon # 2	FLIPPORT	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 &amp; 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****</td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****
Area Reference Monuments (used for Processing)											
Ref Mon # 1	HOMEPORT										
Ref Mon # 2	FLIPPORT										
Ref Mon # 3	NONE										
Comments											
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****											

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 19 58.2941604
<b>Longitude</b>	92 22 21.9490716
<b>Ellipsoid Height (M):</b>	201.655 0.0130
<b>Geoid Height (M):</b>	-28.364

Location Description
<p>FROM THE COURTHOUSE IN MOUNTAIN HOME, GO SOUTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.44 KM (0.90 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.20 METERS NORTH OF THE CENTERLINE OF HWY. 5, 2.70 METERS SOUTH OF A CHAIN LINK FENCE AROUND A MINI STORAGE FACILITY AND 0.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	030001A
<b>Geodetic Azimuth</b>	93 11 49.8948
<b>Grid Azimuth</b>	93 24 50.85573

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030001A	<b>Date Monumented</b> 6/21/1994	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 9952,090319,012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	221,880.7548	0.0040			
<b>Easting (M)</b>	366,909.6273	0.0040			
<b>Elevation (M)*</b>	229.979				
<b>Northing (SFT)</b>	727,953.7764				
<b>Easting (SFT)</b>	1,203,769.3356				
<b>Elevation (SFT)*</b>	754.524				

  

<b>Convergence Angle</b>	0	12	52.0531977
<b>Scale Factor</b>	1.000021151		
<b>Elevation Adjust. Factor</b>	0.9999639100		
<b>Combined Adjust. Factor</b>	0.9999850603		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN COMBINATION POLE	112			13.60	44.6
MK # 2	NBC IN COMBINATION POLE	248			13.15	43.1
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOMEPORT <b>Ref Mon # 2</b> FLIPPORT <b>Ref Mon # 3</b> NONE	Cross Reference Jobs: 009942 and 009973   

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b> NGVD 29	
<b>Geoid Datum:</b> GEOID12A	
<b>Latitude</b>	36   19   57.6085944
<b>Longitude</b>	92   22   6.7818432
<b>Ellipsoid Height (M):</b>	201.490   0.0140
<b>Geoid Height (M):</b>	-28.362

  

Location Description
FROM THE COURTHOUSE IN MOUNTAIN HOME, GO SOUTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.94 KM (1.21 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS SOUTH OF THE CENTERLINE OF HWY. 5, 6.70 METERS WEST OF THE CENTER OF WAVERLY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030002	<b>Date Monumented</b> 6/21/1994	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 9952
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 223,529.0961		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 364,565.8630		<b>Latitude</b> 36 20 50.7886872
<b>Elevation (M)*</b> 276.722		<b>Longitude</b> 92 23 41.0207028
<b>Northing (SFT)</b> 733,361.7095		<b>Ellipsoid Height (M):</b> 247.576
<b>Easting (SFT)</b> 1,196,079.8355		<b>Geoid Height (M):</b> -29.144
<b>Elevation (SFT)*</b> 907.879		

  

<b>Convergence Angle</b> 0 13 46.8907079	<b>Location Description</b>  FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.802 KM (1.12 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 14.4 METERS NORTHEAST OF THE CENTERLINE OF HWY. 5, 19.6 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A BRICK BUILDING AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 1.000024553	
<b>Elevation Adjust. Factor</b> 0.9999565752	
<b>Combined Adjust. Factor</b> 0.9999811271	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	301	30.30	99.4
<b>MK # 2</b>	NBC IN COMBINATION POLE	155	18.65	61.2
<b>MK # 3</b>	"PHILLIPS 66" METAL SIGN POST	145	16.65	54.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOMEPART	Cross Reference Jobs: 009942 and 009973
<b>Ref Mon # 2</b> FLIPPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030002A	<b>Date Monumented</b> 6/21/1994	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 9952
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	223,741.7010				
<b>Easting (M)</b>	364,301.8990				
<b>Elevation (M)*</b>	290.438				
<b>Northing (SFT)</b>	734,059.2307				
<b>Easting (SFT)</b>	1,195,213.8136				
<b>Elevation (SFT)*</b>	952.879				

  

<b>Convergence Angle</b>	0	13	53.0705416
<b>Scale Factor</b>	1.000024997		
<b>Elevation Adjust. Factor</b>	0.9999544229		
<b>Combined Adjust. Factor</b>	0.9999794187		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	315	25.85	84.8
<b>MK # 2</b>	NBC IN POWER POLE	129	29.20	95.8
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOMEPORT	Cross Reference Jobs: 009942 and 009973
<b>Ref Mon # 2</b> FLIPPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030003	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 412	<b>Job Number:</b> R90095,R90097
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,460.8990	
<b>Easting (M)</b>	353,146.5340	
<b>Elevation (M)*</b>	179.514	
<b>Northing (SFT)</b>	710,172.1328	
<b>Easting (SFT)</b>	1,158,614.9203	
<b>Elevation (SFT)*</b>	588.956	

  

<b>Convergence Angle</b>	0	18	12.4940638
<b>Scale Factor</b>	1.000010256		
<b>Elevation Adjust. Factor</b>	0.9999718292		
<b>Combined Adjust. Factor</b>	0.9999820849		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.40 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030003 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="HOMEPORT"/></p> <p>Ref Mon # 2: <input type="text" value="N 37"/></p> <p>Ref Mon # 3: <input type="text" value="TRI COUNTY"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030004	<b>Date Monumented</b> 5/30/2001	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 62	<b>Job Number:</b> R90094,012231
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	224,692.0523	0.0030
<b>Easting (M)</b>	369,718.7955	0.0030
<b>Elevation (M)*</b>	271.035	

  

<b>Northing (SFT)</b>	737,177.1749	
<b>Easting (SFT)</b>	1,212,985.7482	
<b>Elevation (SFT)*</b>	889.221	

  

<b>Convergence Angle</b>	0 11	46.7359288
<b>Scale Factor</b>	1.000027049	
<b>Elevation Adjust. Factor</b>	0.9999574676	
<b>Combined Adjust. Factor</b>	0.9999845154	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	21	29.1381048
<b>Longitude</b>	92	20	14.5345848
<b>Ellipsoid Height:</b>	242.722		
<b>Grid Northing (Meters)</b>	224,692.0515		
<b>Grid Easting (Meters)</b>	369,718.7660		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B AND U.S. HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 0.145 KM. (0.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTERLINE OF WEST BOUND U.S. HIGHWAY 62, 11.11 METERS WEST OF THE CENTERLINE OF EAST BOUND U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030004 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.248 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					030004A
MK # 2	NONE					180 42 11.89088
MK # 3	NONE					180 53 58.62611

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> FAA 7M9 A <b>Ref Mon # 2</b> CRAWFORD <b>Ref Mon # 3</b> HOMEPORT	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030004A	<b>Date Monumented</b> 5/30/2001	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 62	<b>Job Number:</b> R90094,012231
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	224,172.8786	0.0030	
<b>Easting (M)</b>	369,710.6337	0.0030	
<b>Elevation (M)*</b>	261.787		
<b>Northing (SFT)</b>	735,473.8525		
<b>Easting (SFT)</b>	1,212,958.9707		
<b>Elevation (SFT)*</b>	858.880		

  

<b>Convergence Angle</b>	0	11	46.8848905
<b>Scale Factor</b>	1.000025948		
<b>Elevation Adjust. Factor</b>	0.9999589188		
<b>Combined Adjust. Factor</b>	0.9999848657		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	21	12.2941584
<b>Longitude</b>	92	20	14.7902028
<b>Ellipsoid Height:</b>	233.481		
<b>Grid Northing (Meters)</b>	224,172.8686		
<b>Grid Easting (Meters)</b>	369,710.6135		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B AND U.S. HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 0.644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.71 METERS EAST OF THE CENTER LINE OF WEST BOUND U.S. HIGHWAY 62, 14.65 METERS WEST OF THE CENTER LINE OF EAST BOUND U.S. HIGHWAY 62 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030004A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.248 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: FAA 7M9 A</p> <p>Ref Mon # 2: CRAWFORD</p> <p>Ref Mon # 3: HOMEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030005	<b>Date Monumented</b> 5/30/2001	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 62	<b>Job Number:</b> R90094
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,053.9459	
<b>Easting (M)</b>	375,970.7919	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	741,645.3208	
<b>Easting (SFT)</b>	1,233,497.5064	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	20.9072355
<b>Scale Factor</b>	1.000030008		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 , U.S. HIGHWAY 412 AND STATE HIGHWAY 101 NORTH, LOCATED ABOUT 5 MILES EAST OF MOUNTAIN HOME GO EAST ON U.S. HIGHWAY 62 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.17 METERS NORTHEAST OF THE CENTER LINE OF ROBINSON POINT ROAD, 15.62 METERS SOUTHWEST OF THE OF THE CENTER OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	10.00	32.8
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FAA 7M9 A</p> <p>Ref Mon # 2    CRAWFORD</p> <p>Ref Mon # 3    HOMEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030005A	<b>Date Monumented</b> 5/30/2001	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 62	<b>Job Number:</b> R90094
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,381.5240	
<b>Easting (M)</b>	375,672.5301	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	742,720.0500	
<b>Easting (SFT)</b>	1,232,518.9592	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	27.8904956
<b>Scale Factor</b>	1.000030715		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, U.S. HIGHWAY 412 AND STATE HIGHWAY 101 NORTH LOCATED ABOUT 5 MILES FROM MOUNTAIN HOME GO EAST ON U.S. 62 FOR 21 METERS TO THE STATION ON THE RIGHT. THE STATION IS 10.61 MILES EAST OF THE CENTER LINE ON ROBINSON POINT ROAD, 12.85 MILES SOUTHWEST OF THE CENTER LINE ON U.S. HIGHWAY 62/412, 0.50 MILES NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CRAWFORD</td> </tr> <tr> <td>Ref Mon # 3</td> <td>HOMEPORT</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	CRAWFORD	Ref Mon # 3	HOMEPORT	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	FAA 7M9 A						
Ref Mon # 2	CRAWFORD						
Ref Mon # 3	HOMEPORT						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030006	<b>Date Monumented</b> 8/27/2003	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 201	<b>Job Number:</b> 009814
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 236,209.7632		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 367,502.4930		<b>Latitude</b> 36 27 42.5251080
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 21 45.1260648
<b>Northing (SFT)</b> 774,964.8648		<b>Ellipsoid Height (M):</b> 167.559
<b>Easting (SFT)</b> 1,205,714.4291		<b>Geoid Height (M):</b> -28.360
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 12 39.4517191	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.8 MILES TO THE STATION MARK ON THE LEFT, 14.50 METERS SOUTH OF THE CENTERLINE AND NORTH 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 1.000053162	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 Crawford	
Ref Mon # 2 Butler	
Ref Mon # 3 Conway CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030006A	<b>Date Monumented</b> 8/27/2003	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 201	<b>Job Number:</b> 009814
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	236,348.8521	
<b>Easting (M)</b>	367,820.1850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	775,421.1923	
<b>Easting (SFT)</b>	1,206,756.7236	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	32.0393211
<b>Scale Factor</b>	1.000053500		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.65 MILES TO THE STATION MARK ON THE LEFT, 7.50 METERS NORTHWEST OF THE CENTERLINE AND SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	030006
<b>Geodetic Azimuth</b>	246 08 48
<b>Grid Azimuth</b>	246 21 20

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Crawford	
Ref Mon # 2 Butler	
Ref Mon # 3 Conway CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030007	<b>Date Monumented</b> 4/15/2008	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 177	<b>Job Number:</b> 090223
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,194.2490	
<b>Easting (M)</b>	385,587.9250	
<b>Elevation (M)*</b>	263.965	
<b>Northing (SFT)</b>	683,050.6319	
<b>Easting (SFT)</b>	1,265,049.7173	
<b>Elevation (SFT)*</b>	866.026	

  

<b>Convergence Angle</b>	0	5	35.7390743
<b>Scale Factor</b>	0.999995433		
<b>Elevation Adjust. Factor</b>	0.9999585770		
<b>Combined Adjust. Factor</b>	0.9999540102		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W marker	139	19.11	62.7
<b>MK # 2</b>	Wooden fence post	218	1.52	5.0
<b>MK # 3</b>	Wooden fence post	300	5.49	18.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
<b>Ref Mon # 2</b> ARMH	
<b>Ref Mon # 3</b> ARHR, C 39, L 38	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030007A	<b>Date Monumented</b> 4/15/2008	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 177	<b>Job Number:</b> 090223
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,610.5930	
<b>Easting (M)</b>	385,288.1150	
<b>Elevation (M)*</b>	262.975	
<b>Northing (SFT)</b>	684,416.5872	
<b>Easting (SFT)</b>	1,264,066.0906	
<b>Elevation (SFT)*</b>	862.778	

  

<b>Convergence Angle</b>	0	5	42.7394555
<b>Scale Factor</b>	0.999996149		
<b>Elevation Adjust. Factor</b>	0.9999587323		
<b>Combined Adjust. Factor</b>	0.9999548815		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water meter	120	3.51	11.5
<b>MK # 2</b>	12 inch metal pipe	100	10.52	34.5
<b>MK # 3</b>	Liquor store sign	280	24.99	82.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARMH <b>Ref Mon # 3</b> ARHR, C 39, L 38	<b>Comments</b>  Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
--	--

  

**Location Description**  
  
 To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 0.40 miles to the station on the left. 28.5.0 feet southwest of the center of the highway, 53.0 northwest of a paved driveway and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030007A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface. The station is located in the grass area between the two driveways of the liquor store

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030008	<b>Date Monumented</b> 4/15/2008	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 177	<b>Job Number:</b> 090223,012231
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	211,451.8537	0.0030	
<b>Easting (M)</b>	379,608.2493	0.0030	
<b>Elevation (M)*</b>	209.794		
<b>Northing (SFT)</b>	693,738.2900		
<b>Easting (SFT)</b>	1,245,431.3979		
<b>Elevation (SFT)*</b>	688.299		

  

<b>Convergence Angle</b>	0	7	55.2140980
<b>Scale Factor</b>	1.000001135		
<b>Elevation Adjust. Factor</b>	0.9999670776		
<b>Combined Adjust. Factor</b>	0.9999682125		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	14	20.5159560
<b>Longitude</b>	92	13	36.6602268
<b>Ellipsoid Height:</b>	181.630		
<b>Grid Northing (Meters)</b>	211,451.8550		
<b>Grid Easting (Meters)</b>	379,608.2590		

  

Location Description				
<p>To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 4.80 miles to the station on the right. 35.0 feet northeast of the center of the highway 204.0 feet southeast of "Jennings Cove drive" and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "030008 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	270	32.31	106.0
MK # 2	Telephone pole	165	39.62	130.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARMH</p> <p>Ref Mon # 3    ARHR, C 39, L 38</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030008A	<b>Date Monumented</b> 4/15/2008	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 177	<b>Job Number:</b> 090223,012231
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	211,900.2196	0.0030	
<b>Easting (M)</b>	379,212.9137	0.0030	
<b>Elevation (M)*</b>	197.484		
<b>Northing (SFT)</b>	695,209.3038		
<b>Easting (SFT)</b>	1,244,134.3677		
<b>Elevation (SFT)*</b>	647.911		

  

<b>Convergence Angle</b>	0	8	4.4515996
<b>Scale Factor</b>	1.000001942		
<b>Elevation Adjust. Factor</b>	0.9999690093		
<b>Combined Adjust. Factor</b>	0.9999709513		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	14	35.0326068
<b>Longitude</b>	92	13	52.5347472
<b>Ellipsoid Height:</b>	169.313		
<b>Grid Northing (Meters)</b>	211,900.2260		
<b>Grid Easting (Meters)</b>	379,212.9290		

  

Location Description				
<p>To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 5.20 miles to the station on the left. 35.0 feet southwest of the center of the highway and 10.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030008A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Transmission line pole	164	34.75	114.0		030008
MK # 2	15 inch cedar tree	284	27.13	89.0		138 27 46
MK # 3						138 35 50

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARBT	Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
Ref Mon # 2    ARMH	
Ref Mon # 3    ARHR, C 39, L 38	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030009	<b>Date Monumented</b> 5/13/2010	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 090281,012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	209,235.8500	0.0030
<b>Easting (M)</b>	374,439.5804	0.0030
<b>Elevation (M)*</b>	143.835	
<b>Northing (SFT)</b>	686,467.9512	
<b>Easting (SFT)</b>	1,228,473.8567	
<b>Elevation (SFT)*</b>	471.898	

  

<b>Convergence Angle</b>	0	9	55.5162615
<b>Scale Factor</b>	0.999997190		
<b>Elevation Adjust. Factor</b>	0.9999774281		
<b>Combined Adjust. Factor</b>	0.9999746182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	13	8.1869520
<b>Longitude</b>	92	17	3.4014084
<b>Ellipsoid Height:</b>	115.632		
<b>Grid Northing (Meters)</b>	209,235.8590		
<b>Grid Easting (Meters)</b>	374,439.5750		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	2	30.08	98.7
MK # 2	POWER POLE WITH GUY	116	20.57	67.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARBT	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED****3 WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.
Ref Mon # 2: ARHR	
Ref Mon # 3: MOWS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030009-1	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 341	<b>Job Number:</b> FA0312
----------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	198,291.0869		
<b>Easting (M)</b>	373,182.7190		
<b>Elevation (M)*</b>	214.064		
<b>Northing (SFT)</b>	650,560.0076		
<b>Easting (SFT)</b>	1,224,350.3039		
<b>Elevation (SFT)*</b>	702.308		

  

<b>Convergence Angle</b>	0	10	24.0274625
<b>Scale Factor</b>	0.999979607		
<b>Elevation Adjust. Factor</b>	0.9999664075		
<b>Combined Adjust. Factor</b>	0.9999460152		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gate Post	75	7.32	24.0
<b>MK # 2</b>	24" CMP	190	1.83	6.0
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	030009A
<b>Geodetic Azimuth</b>	24 57 16
<b>Grid Azimuth</b>	25 07 40

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TRI COUNTY	
<b>Ref Mon # 2</b> MONA	
<b>Ref Mon # 3</b> ARHR, ARBT, C 39, 690006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030009A	<b>Date Monumented</b> 5/13/2010	<b>Monumented By</b> AHTD	<b>County</b> BAXTER	<b>Route</b> 341	<b>Job Number:</b> 090281,012231
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	209,871.5826	0.0030			
<b>Easting (M)</b>	374,205.9926	0.0030			
<b>Elevation (M)*</b>	129.413				
<b>Northing (SFT)</b>	688,553.6839				
<b>Easting (SFT)</b>	1,227,707.4941				
<b>Elevation (SFT)*</b>	424.582				

  

<b>Convergence Angle</b>	0	10	1.0016023
<b>Scale Factor</b>	0.999998301		
<b>Elevation Adjust. Factor</b>	0.9999796913		
<b>Combined Adjust. Factor</b>	0.9999779923		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	13	28.7898924
<b>Longitude</b>	92	17	12.8277564
<b>Ellipsoid Height:</b>	180.496		
<b>Grid Northing (Meters)</b>	209,871.5840		
<b>Grid Easting (Meters)</b>	374,205.9940		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PRIVATE ANTENNA TOWER	206	55.66	182.6
MK # 2	NORTHWEST END OF GATE	55	14.69	48.2
MK # 3	NORTHWEST END OF 36 INCH CMP	354	4.57	15.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> MOWS	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****3WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.*****
---	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 201 AND STATE HIGHWAY 5, NORTH OF NORFORK, GO NORTH ON HIGHWAY 201 0.35 MILES TO THE STATION MARK ON THE RIGHT, 24.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT DRIVE, NORTH 28 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 39 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED ""2010 030009A"" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	030009
<b>Geodetic Azimuth</b>	159 39 30
<b>Grid Azimuth</b>	159 49 32

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030009A-1	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 341	<b>Job Number:</b> FA0312
-----------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	198,632.5360		
<b>Easting (M)</b>	373,342.8680		
<b>Elevation (M)*</b>	208.562		
<b>Northing (SFT)</b>	651,680.2452		
<b>Easting (SFT)</b>	1,224,875.7261		
<b>Elevation (SFT)*</b>	684.257		

  

<b>Convergence Angle</b>	0	10	20.3247755
<b>Scale Factor</b>	0.999980111		
<b>Elevation Adjust. Factor</b>	0.9999672709		
<b>Combined Adjust. Factor</b>	0.9999473825		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the junction of highway 14 and 341 east of Big Flat, go north 13.3 miles on highway 341 to the station on the left, 22ft east of the center line of highway 341, 1.5ft west from the witness post. The station mark is a 2 1/2 inch cap stamped "030009A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	South end of guard rail	185	12.80	42.0
<b>MK # 2</b>	Center of 4x4 ft twin box culvert	355	25.91	85.0
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    TRI COUNTY</p> <p><b>Ref Mon # 2</b>    MONA</p> <p><b>Ref Mon # 3</b>    ARHR, ARBT, C 39, 690006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030010	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	199,978.1059		
<b>Easting (M)</b>	374,265.4380		
<b>Elevation (M)*</b>	244.493		
<b>Northing (SFT)</b>	656,094.8358		
<b>Easting (SFT)</b>	1,227,902.5245		
<b>Elevation (SFT)*</b>	802.141		

  

<b>Convergence Angle</b>	0	9	58.9471581
<b>Scale Factor</b>	0.999982127		
<b>Elevation Adjust. Factor</b>	0.9999616325		
<b>Combined Adjust. Factor</b>	0.9999437602		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20' Pine Tree	234	14.02	46.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    TRI COUNTY Ref Mon # 2    MONA Ref Mon # 3    ARHR, ARBT, C 39, 690006	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    8    7.8152028
<b>Longitude</b>	92    17    9.2972256
<b>Ellipsoid Height (M):</b>	216.408
<b>Geoid Height (M):</b>	-28.086

Location Description
To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 1.1 miles on county road 73 to the station on the right, 20.5ft south of center of county road 73, 2.ft north of white wooden fence, 2.ft north of witness post. The station mark is a 2 1/2 inch cap stamped "030010, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030011A	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	200,447.2150	
<b>Easting (M)</b>	377,286.3520	
<b>Elevation (M)*</b>	124.391	
<b>Northing (SFT)</b>	657,633.9045	
<b>Easting (SFT)</b>	1,237,813.6399	
<b>Elevation (SFT)*</b>	408.106	

  

<b>Convergence Angle</b>	0	8	48.6666048
<b>Scale Factor</b>	0.999982852		
<b>Elevation Adjust. Factor</b>	0.9999804794		
<b>Combined Adjust. Factor</b>	0.9999633317		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Northwest of corner of bridge	170	36.27	119.0
<b>MK # 2</b>	Combination Pole	317	25.30	83.0
<b>MK # 3</b>	18' triple sweetgum tree	350	20.12	66.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TRI COUNTY	
<b>Ref Mon # 2</b> MONA	
<b>Ref Mon # 3</b> ARHR, ARBT, C 39, 690006	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 8 23.3029356
<b>Longitude</b>	92 15 8.5193280
<b>Ellipsoid Height (M):</b>	96.310
<b>Geoid Height (M):</b>	-28.081

  

Location Description
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 3.2 miles on county road 73 to the station on the station on the left, 20.ft east of center line of county road 73, 1.5ft west of witness post. The station mark is a 2 1/2 inch cap stamped "030011A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030012	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	198,901.0500				
<b>Easting (M)</b>	378,034.1930				
<b>Elevation (M)*</b>	232.968				
<b>Northing (SFT)</b>	652,561.1949				
<b>Easting (SFT)</b>	1,240,267.1815				
<b>Elevation (SFT)*</b>	764.329				

  

<b>Convergence Angle</b>	0	8	31.1712794
<b>Scale Factor</b>	0.999980528		
<b>Elevation Adjust. Factor</b>	0.9999634411		
<b>Combined Adjust. Factor</b>	0.9999439698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 4.4 miles on county road 73 to the station on the station on the right, 27.ft southwest of center line of county road 73, 1.5ft northeast of witness post. The station mark is a 2 1/2 inch cap stamped "030012, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    TRI COUNTY</p> <p>Ref Mon # 2    MONA</p> <p>Ref Mon # 3    ARHR, ARBT, C 39, 690006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030013	<b>Date Monumented</b> 9/14/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	198,244.6649		
<b>Easting (M)</b>	379,367.2200		
<b>Elevation (M)*</b>	209.947		
<b>Northing (SFT)</b>	650,407.7048		
<b>Easting (SFT)</b>	1,244,640.6210		
<b>Elevation (SFT)*</b>	688.801		

  

<b>Convergence Angle</b>	0	8	0.1146672
<b>Scale Factor</b>	0.999979563		
<b>Elevation Adjust. Factor</b>	0.9999670536		
<b>Combined Adjust. Factor</b>	0.9999466172		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 5.5 miles on county road 73 to the station on the left in driveway to pasture, 10 feet south of the center of the driveway, 32 feet east of the center of county road 73, 1.5 feet north of the witness post. The station mark is a 2 1/2 inch cap stamped "030013, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>			

  

<b>Location Reference Marks</b>					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	North fence corner of gate	75	2.53	8.3	
<b>MK # 2</b>	End of 18" CMP	251	4.88	16.0	
<b>MK # 3</b>	Combination Pole	180	3.90	12.8	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    TRI COUNTY</p> <p><b>Ref Mon # 2</b>    MONA</p> <p><b>Ref Mon # 3</b>    ARHR, ARBT, C 39, 690006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030014	<b>Date Monumented</b> 9/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,945.9159	
<b>Easting (M)</b>	380,747.3340	
<b>Elevation (M)*</b>	160.516	
<b>Northing (SFT)</b>	646,146.7257	
<b>Easting (SFT)</b>	1,249,168.5450	
<b>Elevation (SFT)*</b>	526.626	

  

<b>Convergence Angle</b>	0	7	27.9345668
<b>Scale Factor</b>	0.999977680		
<b>Elevation Adjust. Factor</b>	0.9999748104		
<b>Combined Adjust. Factor</b>	0.9999524910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 6.9 miles on county road 73 to the station on the left, 128 feet east of the centerline of CR 73 and 13 feet south of the center of the driveway. The station mark is a 2 1/2 inch cap stamped "030014, 2010" set in top of a rock outcropping in the yard by the garden area.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of 1 story frame house	326	18.44	60.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Tri County</p> <p><b>Ref Mon # 2</b>    Mona</p> <p><b>Ref Mon # 3</b>    ARHR, ARBT, C 39, 690006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030015	<b>Date Monumented</b> 9/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> CR 73	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	196,249.9430		
<b>Easting (M)</b>	381,700.5590		
<b>Elevation (M)*</b>	161.605		
<b>Northing (SFT)</b>	643,863.3547		
<b>Easting (SFT)</b>	1,252,295.9173		
<b>Elevation (SFT)*</b>	530.199		

  

<b>Convergence Angle</b>	0	7	5.7233761
<b>Scale Factor</b>	0.999976689		
<b>Elevation Adjust. Factor</b>	0.9999746395		
<b>Combined Adjust. Factor</b>	0.9999513291		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 7.8 miles on county road 73 to the station on the left, 22 feet north of the centerline of CR 73 and 2 feet south of the witness post, 2 feet north of a 2-strand barbed wire, 3 foot web-wire fence. The station mark is a 2 1/2 inch cap stamped "030015, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>				

  

<b>Location Reference Marks</b>					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	15 inch pine tree	287	21.95	72.0	
<b>MK # 2</b>	24 inch pine tree	80	16.45	54.0	
<b>MK # 3</b>					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> TRI COUNTY</p> <p><b>Ref Mon # 2</b> MONA</p> <p><b>Ref Mon # 3</b> ARHR, ARBT, C 39, 690006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030016	<b>Date Monumented</b> 9/7/2011	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 62	<b>Job Number:</b> 090319,012231
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	219,973.0474	0.0040
<b>Easting (M)</b>	364,967.3153	0.0040
<b>Elevation (M)*</b>	214.086	
<b>Northing (SFT)</b>	721,694.9063	
<b>Easting (SFT)</b>	1,197,396.9336	
<b>Elevation (SFT)*</b>	702.379	

  

<b>Convergence Angle</b>	0	13	37.1937500
<b>Scale Factor</b>	1.000017260		
<b>Elevation Adjust. Factor</b>	0.9999664041		
<b>Combined Adjust. Factor</b>	0.9999836636		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	18	55.4763888
<b>Longitude</b>	92	23	24.3571020
<b>Ellipsoid Height:</b>	185.674		
<b>Grid Northing (Meters)</b>	219,973.0473		
<b>Grid Easting (Meters)</b>	364,967.2972		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West of fence	129.00.00	3.28	10.8
MK # 2	North of center of concrete ditch pavement	215.00.00	4.82	15.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 18 55.4763924
<b>Longitude</b>	92 23 24.3563748
<b>Ellipsoid Height (M):</b>	185.595 0.0140
<b>Geoid Height (M):</b>	-28.366

Location Description
Starting at the intersection of 201 and 62 bypass in mountain home go west approx. .08 miles to the end of dodd creek bridge and the station on the left. 8.47 meters south of the center of the west bound lane of 62 and 2.37 meters south of witness post. The station is a standard 2.5 in. cap stamped 030016 2011 on top of a 1.22 meter 5/8's rebar and driven flush with the ground.  Latitude 36.18.56 Longitude 092.23.25

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030016A	<b>Date Monumented</b> 9/7/2011	<b>Monumented By</b> AHTD	<b>County</b> Baxter	<b>Route</b> 62	<b>Job Number:</b> 090319,012231
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	220,343.3217	0.0040	
<b>Easting (M)</b>	364,628.4357	0.0040	
<b>Elevation (M)*</b>	228.405		
<b>Northing (SFT)</b>	722,909.7146		
<b>Easting (SFT)</b>	1,196,285.1261		
<b>Elevation (SFT)*</b>	749.358		

  

<b>Convergence Angle</b>	0	13	45.1331293
<b>Scale Factor</b>	1.000018002		
<b>Elevation Adjust. Factor</b>	0.9999641571		
<b>Combined Adjust. Factor</b>	0.9999821585		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	19	7.4450244
<b>Longitude</b>	92	23	38.0010084
<b>Ellipsoid Height:</b>	199.992		
<b>Grid Northing (Meters)</b>	220,343.3221		
<b>Grid Easting (Meters)</b>	364,628.4177		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North of Highway 62	220.00.00	18.59	61.0
<b>MK # 2</b>	South of brace post	32.00.00	1.52	5.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 19 7.4450136
<b>Longitude</b>	92 23 38.0002848
<b>Ellipsoid Height (M):</b>	199.912 0.0140
<b>Geoid Height (M):</b>	-28.368

Location Description
<p>Starting at the Intersection of 201 and 62 bypass go west approx. .375 miles to the station on the left. The station is 18.59 meters north of the center of the west bound lane of 62, set 1.46 meters south of the witness post. The station is a standard 2.5 in cap stamped 030016A 2011 on top of a 1 meter long 5/8's rebar and driven flush with the ground.</p> <p>Latitude 36.19.07 Longitude 092.23.38</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030017	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	203,618.2837	0.0030
<b>Easting (M)</b>	379,922.7227	0.0030
<b>Elevation (M)*</b>	187.104	0.0026
<b>Northing (SFT)</b>	668,037.6524	
<b>Easting (SFT)</b>	1,246,463.1327	
<b>Elevation (SFT)*</b>	613.857	

  

<b>Convergence Angle</b>	0	7	47.4718261
<b>Scale Factor</b>	0.999987820		
<b>Elevation Adjust. Factor</b>	0.9999706382		
<b>Combined Adjust. Factor</b>	0.9999584585		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTERLINE HIGHWAY 5	255	32.52	106.7
MK # 2	36" OAK TREE	100	14.78	48.5
MK # 3	LIGHT POLE	80	3.05	10.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARM3 Ref Mon # 2    ARHR Ref Mon # 3    ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
---	---

  

**Location Description**

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 0.96 MILES TO THE INTERSECTION OF HWY. 5 AND ALYSA LANE. TURN RIGHT (NORTHEASTERLY) ON ALYSA LANE AND GO 110 FEET TO THE STATION MARK ON THE LEFT, BEING 11.4 FEET NORTHWEST OF THE CENTERLINE OF A DIRT ROAD (ALYSA LANE) AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030017A	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	203,944.0338	0.0030	
<b>Easting (M)</b>	379,616.8956	0.0020	
<b>Elevation (M)*</b>	203.546		
<b>Northing (SFT)</b>	669,106.3842		
<b>Easting (SFT)</b>	1,245,459.7650		
<b>Elevation (SFT)*</b>	667.800		

  

<b>Convergence Angle</b>	0	7	54.6100162
<b>Scale Factor</b>	0.999988342		
<b>Elevation Adjust. Factor</b>	0.9999680581		
<b>Combined Adjust. Factor</b>	0.9999564004		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTERLINE HIGHWAY 5	230	16.89	55.4
<b>MK # 2</b>	POWER POLE	185	8.63	28.3
<b>MK # 3</b>	POWER POLE	315	2.65	8.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 10 16.9374216
<b>Longitude</b>	92 13 35.6224908
<b>Ellipsoid Height (M):</b>	175.257 0.0140
<b>Geoid Height (M):</b>	-28.190

Location Description
<p>FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 1.23 MILES TO THE STATION MARK ON THE RIGHT, BEING 55.4 FEET NORTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET SOUTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017A" SET ON TOP OF A 5/8" REBAR.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030018	<b>Date Monumented</b> 3/10/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	205,950.5483 0.0020
<b>Easting (M)</b>	378,491.6286 0.0020
<b>Elevation (M)*</b>	249.379 0.0022
<b>Northing (SFT)</b>	675,689.4239
<b>Easting (SFT)</b>	1,241,767.9515
<b>Elevation (SFT)*</b>	818.171

  

<b>Convergence Angle</b>	0 8 20.9246383
<b>Scale Factor</b>	0.999991620
<b>Elevation Adjust. Factor</b>	0.9999608659
<b>Combined Adjust. Factor</b>	0.9999524862

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5 3.61 MILES TO THE INTERSECTION OF HWY. 5 AND BAXTER COUNTY ROAD 67 (HAVNER RD.) TURN LEFT (EASTERNLY) ON BAXTER COUNTY ROAD 67 AND GO 420 FEET TO THE STATION MARK ON THE RIGHT, BEING 29.7 FEET SOUTH OF THE CENTERLINE OF BAXTER COUNTY ROAD 67 AND 1.5 FEET NORTH OF A WITNESS POST AND SIGN, THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018" SET ON TOP OF A 5/8" REBAR.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	22" OAK TREE	345	16.25	53.3
<b>MK # 2</b>	CL BAXTER CO RD 67	355	9.05	29.7
<b>MK # 3</b>	BARBED WIRE FENCE	170	1.74	5.7

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: ARM3 Ref Mon # 2: ARHR Ref Mon # 3: ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030018A	<b>Date Monumented</b> 3/10/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,144.3799	0.0020			
<b>Easting (M)</b>	378,224.7950	0.0020			
<b>Elevation (M)*</b>	237.910				
<b>Northing (SFT)</b>	676,325.3531				
<b>Easting (SFT)</b>	1,240,892.5149				
<b>Elevation (SFT)*</b>	780.542				

  

<b>Convergence Angle</b>	0	8	27.1502023
<b>Scale Factor</b>	0.999991941		
<b>Elevation Adjust. Factor</b>	0.9999626656		
<b>Combined Adjust. Factor</b>	0.9999546069		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE COR. OLD HISTORIC GALATIA CHURCH	320	19.35	63.5
MK # 2	SE COR. OLD HISTORIC GALATIA CHURCH	285	18.59	61.0
MK # 3	CENTERLINE HWY 5	55	10.82	35.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARM3	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Ref Mon # 2: ARHR	
Ref Mon # 3: ARPG	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 11 28.2172200
<b>Longitude</b>	92 14 31.5431556
<b>Ellipsoid Height (M):</b>	209.599 0.0130
<b>Geoid Height (M):</b>	-28.212

Location Description
<p>FROM THE NORFORK, AR POST OFFICE AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY 5: 3.47 MILES TO THE STATION MARK ON THE RIGHT, BEIGN 35.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018A" SET ON TOP OF A 5/8" REBAR.</p>

<b>AZ Mark Station</b>	030018
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030019	<b>Date Monumented</b> 3/16/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,711.1431	0.0030			
<b>Easting (M)</b>	375,985.4537	0.0030			
<b>Elevation (M)*</b>	229.030				
<b>Northing (SFT)</b>	678,184.8087				
<b>Easting (SFT)</b>	1,233,545.6093				
<b>Elevation (SFT)*</b>	751.409				

  

<b>Convergence Angle</b>	0	9	19.3405971
<b>Scale Factor</b>	0.999992879		
<b>Elevation Adjust. Factor</b>	0.9999640590		
<b>Combined Adjust. Factor</b>	0.9999569383		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL SAWMILL LN.	5	13.81	45.3
MK # 2	WATER VALVE	95	9.23	30.3
MK # 3	POWER POLE	275	6.31	20.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

  

Location Description	
FROM THE NORFORK, AR POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY. 5; 2.0 MILES TO THE INTERSECTION OF HWY 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTERLY) ON HWY. 177 SOUTH AND GO 0.30 MILES TO THE INTESECTION OF HWY. 177 SOUTH AND SAWMILL LANE. TURN RIGHT (WEST) ON SAWMILL LANE AND GO 100 FEET TO THE STATION MARK ON THE LEFT, BEING 45.3 FEET SOUTH OF THE CENTERLINE OF SAWMILL LANE AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019" SET ON TOP OF A 5/8" REBAR.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030019A	<b>Date Monumented</b> 3/16/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,443.2678	0.0030			
<b>Easting (M)</b>	375,987.6079	0.0020			
<b>Elevation (M)*</b>	232.471				
<b>Northing (SFT)</b>	677,305.9544				
<b>Easting (SFT)</b>	1,233,552.6769				
<b>Elevation (SFT)*</b>	762.697				

  

<b>Convergence Angle</b>	0	9	19.2735036
<b>Scale Factor</b>	0.999992430		
<b>Elevation Adjust. Factor</b>	0.9999635191		
<b>Combined Adjust. Factor</b>	0.9999559494		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	295	25.05	82.2
<b>MK # 2</b>	CL CURBSTONE LANE	355	13.41	44.0
<b>MK # 3</b>	CL HWY. 177	270	9.33	30.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 11 37.7265624
<b>Longitude</b>	92 16 1.1176176
<b>Ellipsoid Height (M):</b>	204.116 0.0140
<b>Geoid Height (M):</b>	-28.239

  

Location Description
<p>FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5; 2.00 MILES TO THE INTESECTION OF HWY. 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTENLY) ON HWY. 177 SOUTH AND GO 0.48 MILES TO THE STATION MARK ON THE LEFT, BEING 44.0 FEET SOUTH OF THE CENTERLINE OF CURBSTONE LANE, 30.6 FEET EAST OF HWY 177 SOUTH AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019A", SET ON TOP OF A 5/8" REBAR.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030020	<b>Date Monumented</b> 3/16/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	210,731.6723	0.0030			
<b>Easting (M)</b>	375,601.5770	0.0020			
<b>Elevation (M)*</b>	199.983				
<b>Northing (SFT)</b>	691,375.4949				
<b>Easting (SFT)</b>	1,232,286.1739				
<b>Elevation (SFT)*</b>	656.110				

  

<b>Convergence Angle</b>	0	9	28.5398259
<b>Scale Factor</b>	0.999999829		
<b>Elevation Adjust. Factor</b>	0.9999686172		
<b>Combined Adjust. Factor</b>	0.9999684462		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	295	11.89	39.0
MK # 2	CL BONNER DR.	20	6.86	22.5
MK # 3	WOOD FENCE CORNER	195	1.52	5.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARM3 <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
--	---

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12A

**Latitude**    36    13    56.8221672

**Longitude**    92    16    17.0418936

**Ellipsoid Height (M):**    171.595    0.0140

**Geoid Height (M):**    -28.279

**Location Description**

FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.93 MILES TO THE STATION MARK ON THE LEFT, BEING 39.0 FEET SOUTHWESTERLY OF THE CENTELINE OF HWY. 5, 22.5 FEET SOUTHWESTERLY OF THE CENTERLINE OF BONNER DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030020A	<b>Date Monumented</b> 3/17/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	210,973.1610 0.0040
<b>Easting (M)</b>	375,696.9135 0.0030
<b>Elevation (M)*</b>	208.047
<b>Northing (SFT)</b>	692,167.7790
<b>Easting (SFT)</b>	1,232,598.9570
<b>Elevation (SFT)*</b>	682.568

  

<b>Convergence Angle</b>	0 9 26.3337260
<b>Scale Factor</b>	1.000000260
<b>Elevation Adjust. Factor</b>	0.9999673517
<b>Combined Adjust. Factor</b>	0.9999676117

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> GEOID12A
<b>Latitude</b> 36 14 4.6653000
<b>Longitude</b> 92 16 13.2506868
<b>Ellipsoid Height (M):</b> 179.653 0.0150
<b>Geoid Height (M):</b> -28.280

  

Location Description
<p>FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.77 MILES TO THE STATION MARK ON THE RIGHT, BEING 39.5 FEET NORTHWESTERLY OF THE CENTELINE OF HWY. 5, 12.1 FEET NORTHERLY OF THE CENTERLINE OF WINTERBERRY DR. AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020A", SET ON TOP OF A 5/8" REBAR.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL HWY. 5	110	12.04	39.5
<b>MK # 2</b>	18" DOUBLE PINE TREE	280	8.23	27.0
<b>MK # 3</b>	CL WINTERBERRY DR.	170	3.69	12.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARM3	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARPG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030021	<b>Date Monumented</b> 3/2/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	212,341.2312	0.0030	
<b>Easting (M)</b>	375,294.4735	0.0030	
<b>Elevation (M)*</b>	236.668		
<b>Northing (SFT)</b>	696,656.1894		
<b>Easting (SFT)</b>	1,231,278.6185		
<b>Elevation (SFT)*</b>	776.469		

  

<b>Convergence Angle</b>	0	9	35.8007148
<b>Scale Factor</b>	1.000002724		
<b>Elevation Adjust. Factor</b>	0.9999628604		
<b>Combined Adjust. Factor</b>	0.9999655843		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16" ELM TREE	280	16.09	52.8
<b>MK # 2</b>	CL SCHWARTZ RD.	95	7.01	23.0
<b>MK # 3</b>	CL WILSON DR.	10	7.31	24.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 14 49.0133652
<b>Longitude</b>	92 16 29.5198104
<b>Ellipsoid Height (M):</b>	208.262 0.0140
<b>Geoid Height (M):</b>	-28.288

  

Location Description
<p>FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTERSECTION OF SCHWARTZ RD. AND WILSON DR., TO THE STATION MARK TO THE SOUTHWEST, BEING 23.0 FEET WEST OF THE CENTERLINE OF SCHWARTZ RD., 24.0 FEET SOUTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021" SET ON TOP OF A 5/8" REBAR.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030021A	<b>Date Monumented</b> 3/2/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	212,450.4542	0.0030	
<b>Easting (M)</b>	375,038.5602	0.0030	
<b>Elevation (M)*</b>	244.261		
<b>Northing (SFT)</b>	697,014.5318		
<b>Easting (SFT)</b>	1,230,439.0096		
<b>Elevation (SFT)*</b>	801.379		

  

<b>Convergence Angle</b>	0	9	41.7723217
<b>Scale Factor</b>	1.000002921		
<b>Elevation Adjust. Factor</b>	0.9999616690		
<b>Combined Adjust. Factor</b>	0.9999645899		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTESECTION OF SCHWARTZ RD. AND WILSON DR. TURN RIGHT (NORTHWESTERLY) ON WILSON DR. AND GO 920 FEET TO THE STATION MARK ON THE RIGHT, BEING 12.0 FEET NORTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021A", SET ON TOP OF A 5/8" REBAR.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	END OF A CHAINLINK FENCE		180	12.04	39.5
MK # 2	CL WILSON DR.		195	3.66	12.0
MK # 3	POWER POLE		13	3.66	12.0

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="ARM3"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ARHR"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="ARPG"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 &amp; 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030022	<b>Date Monumented</b> 3/2/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	214,784.2570	0.0020	
<b>Easting (M)</b>	373,794.6428	0.0020	
<b>Elevation (M)*</b>	267.498		
<b>Northing (SFT)</b>	704,671.3498		
<b>Easting (SFT)</b>	1,226,357.9239		
<b>Elevation (SFT)*</b>	877.617		

  

<b>Convergence Angle</b>	0	10	10.9250456
<b>Scale Factor</b>	1.000007234		
<b>Elevation Adjust. Factor</b>	0.9999580226		
<b>Combined Adjust. Factor</b>	0.9999652563		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	272	28.28	92.8
MK # 2	CL SCENIC DR.	355	7.13	23.4
MK # 3	SPEED LIMIT SIGN	85	4.18	13.7

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARM3 <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 &amp; 030004A BY CLS NOV. 2015 DURING JOB 012231.</td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Comments			
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.			

  

Location Description	
FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTERSECTION OF HWY. 5 AND SCENIC DR.. TURN RIGHT (EASTERLY) ON SCENIC DR.. AND GO 150 FEET TO THE STATION MARK ON THE RIGHT, BEING 23.4 FEET SOUTH OF THE CENTERLINE OF SCENIC DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022", SET ON TOP OF A 5/8" REBAR.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030022A	<b>Date Monumented</b> 3/2/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	214,883.2682	0.0040	
<b>Easting (M)</b>	374,044.4925	0.0030	
<b>Elevation (M)*</b>	267.695		
<b>Northing (SFT)</b>	704,996.1891		
<b>Easting (SFT)</b>	1,227,177.6391		
<b>Elevation (SFT)*</b>	878.263		

  

<b>Convergence Angle</b>	0	10	5.1071097
<b>Scale Factor</b>	1.000007421		
<b>Elevation Adjust. Factor</b>	0.9999579917		
<b>Combined Adjust. Factor</b>	0.9999654124		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL SCENIC DR.	180	9.08	29.8
MK # 2	CL DUNCAN GRAY DR.	270	8.84	29.0
MK # 3	STREET SIGN	295	1.86	6.1

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARM3 <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
--	---

  

Location Description			
FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTESECTION OF HWY. 5 AND SCENIC DR. TURN RIGHT (EASTERLY) ON SCENIC DR. AND GO 1000 FEET TO THE STATION MARK ON THE LEFT, BEING 29.8 FEET NORTH OF THE CENTERLINE OF SCENIC DR., 29.0 FEET EAST OF THE CENTERLINE OF DUNCAN GRAY DR. AND 1.0 FEET SOUTH OF A WITHNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022A", SET ON TOP OF A 5/8" REBAR.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 16 11.3678652
<b>Longitude</b>	92 17 19.8831696
<b>Ellipsoid Height (M):</b>	239.246 0.0140
<b>Geoid Height (M):</b>	-28.304

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030023	<b>Date Monumented</b> 2/25/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	217,679.7997	0.0030	
<b>Easting (M)</b>	369,944.0373	0.0030	
<b>Elevation (M)*</b>	267.366		
<b>Northing (SFT)</b>	714,171.1428		
<b>Easting (SFT)</b>	1,213,724.7290		
<b>Elevation (SFT)*</b>	877.183		

  

<b>Convergence Angle</b>	0	11	40.9228884
<b>Scale Factor</b>	1.000012756		
<b>Elevation Adjust. Factor</b>	0.9999580433		
<b>Combined Adjust. Factor</b>	0.9999707988		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10" BOX ELDER TREE	320	15.36	50.4
MK # 2	CL KENTON TREAT DR.	260	14.72	48.3
MK # 3	2-1/2" STEEL POST	300	0.79	2.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 17 41.6728860
<b>Longitude</b>	92 20 4.5436308
<b>Ellipsoid Height (M):</b>	238.874 0.0140
<b>Geoid Height (M):</b>	-28.331

Location Description
<p>FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.78 MILES TO THE INTERSECTION OF HWY. 5 AND LAGERGORG LN. (ENTRANCE TO THE DR. RAY STAHL SOCCOR COMPLEX). TURN RIGHT (SOUTHWESTERLY) ON LAGERBORG LN. AND GO 1000 FEET TO A CUL DE SAC AND THE INTERSECTION OF LAGERBORG LN. AND KENTON TREAT DR. TURN RIGHT (NORTHWESTERLY) ON KENTON TREAT DR. AND GO 480 FEET TO THE STATION MARK ON THE RIGHT, BEING 48.3 FEET NORTHWESTERLY OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023", SET ON TOP OF A 5/8" REBAR.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030023A	<b>Date Monumented</b> 2/25/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	218,049.6248	0.0020			
<b>Easting (M)</b>	369,870.1637	0.0020			
<b>Elevation (M)*</b>	269.468				
<b>Northing (SFT)</b>	715,384.4774				
<b>Easting (SFT)</b>	1,213,482.3621				
<b>Elevation (SFT)*</b>	884.081				

  

<b>Convergence Angle</b>	0	11	42.6750309
<b>Scale Factor</b>	1.000013479		
<b>Elevation Adjust. Factor</b>	0.9999577134		
<b>Combined Adjust. Factor</b>	0.9999711918		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL CO. RD. 573	0	17.71	58.1
<b>MK # 2</b>	CL KENTON TREAT DR.	270	11.31	37.1
<b>MK # 3</b>	POWER POLE	358	10.67	35.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 17 53.6626680
<b>Longitude</b>	92 20 7.5547068
<b>Ellipsoid Height (M):</b>	240.974 0.0140
<b>Geoid Height (M):</b>	-28.333

  

Location Description
FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.47 MILES TO THE INTERSECTION OF HWY. 5 AND COUNTY RD. 573 (BROUGH RD.) TURN RIGHT (WESTERLY) ON COUNTY RD. 573 AND GO 606 FEET TO THE INTERSECTION OF COUNTY RD. 573 AND KENTON TREAT DR. TURN LEFT (SOUTH) ON KENTON TREAT DR. AND GO 63 FEET TO THE STATION MARK ON THE LEFT, BEING 37.1 FEET EAST OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023A", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030024	<b>Date Monumented</b> 2/26/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	221,293.0497	0.0030	
<b>Easting (M)</b>	368,188.3632	0.0020	
<b>Elevation (M)*</b>	270.781		
<b>Northing (SFT)</b>	726,025.6139		
<b>Easting (SFT)</b>	1,207,964.6549		
<b>Elevation (SFT)*</b>	888.388		

  

<b>Convergence Angle</b>	0	12	22.1690950
<b>Scale Factor</b>	1.000019956		
<b>Elevation Adjust. Factor</b>	0.9999575074		
<b>Combined Adjust. Factor</b>	0.9999774626		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF HWY. 5 BR PARAPET WALL	245	19.93	65.4
MK # 2	SE CORNER OF CONC DITCH PAVING	217	13.11	43.0
MK # 3	EDGE OF BLUFF	320	7.92	26.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 030024A	<b>Date Monumented</b> 2/26/2015	<b>Monumented By</b> CLSI	<b>County</b> BAXTER	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	221,448.0603	0.0030	
<b>Easting (M)</b>	368,458.9219	0.0030	
<b>Elevation (M)*</b>	261.085		
<b>Northing (SFT)</b>	726,534.1778		
<b>Easting (SFT)</b>	1,208,852.3129		
<b>Elevation (SFT)*</b>	856.576		

  

<b>Convergence Angle</b>	0	12	15.8698850
<b>Scale Factor</b>	1.000020275		
<b>Elevation Adjust. Factor</b>	0.9999590289		
<b>Combined Adjust. Factor</b>	0.9999793031		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EP OF U.S. HWY. 62/412 BYPASS ON-RAMP	315	11.58	38.0
<b>MK # 2</b>	EP GOLDEN STAR LANE	135	4.24	13.9
<b>MK # 3</b>	WEB WIRE FENCE	135	1.83	6.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 19 43.7549592
<b>Longitude</b>	92 21 4.6004256
<b>Ellipsoid Height (M):</b>	232.589 0.0130
<b>Geoid Height (M):</b>	-28.354

  

Location Description
<p>THE STATION MARK IS LOCATED NEAR THE EASTERN END OF THE ON RAMP FROM HWY.5 TO THE U.S. 62/412 (SHEID-HOPPER) BYPASS. FROM THE INTERSECTION OF THE ON RAMP AND HWY. 5, GO 1200 FEET ALONG THE ON RAMP TO THE STATION MARK ON THE RIGHT, BEING 38.0 FEET SOUTHEASTERLY OF THE EDGE OF PAVEMENT OF THE ON RAMP AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030024A", SET ON TOP OF A 5/8" REBAR.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040001A	<b>Date Monumented</b> 12/1/1998	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090024
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,852.6910	
<b>Easting (M)</b>	174,837.1620	
<b>Elevation (M)*</b>	350.727	
<b>Northing (SFT)</b>	681,930.0371	
<b>Easting (SFT)</b>	573,611.5890	
<b>Elevation (SFT)*</b>	1,150.677	

  

<b>Convergence Angle</b>	-1	27	23.9933913
<b>Scale Factor</b>	0.999990079		
<b>Elevation Adjust. Factor</b>	0.9999449625		
<b>Combined Adjust. Factor</b>	0.9999350421		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 3.85 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.38 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040001A" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	IN LINE BRACE POST	324	1.84	6.0		
MK # 2	CORNER POST	41	2.28	7.5		
MK # 3	GATE POST	71	1.84	6.0		

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	OLD MAIN	
Ref Mon # 2	FLINT	
Ref Mon # 3	V 26	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040002	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	207,850.6330	
<b>Easting (M)</b>	174,906.6360	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	681,923.2851	
<b>Easting (SFT)</b>	573,839.5216	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	27	22.3748365
<b>Scale Factor</b>	0.999990079		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
FROM SILOAM SPRINGS, GO EAST ON HWY. 412 3.90 MILES TO STATION ON THE LEFT. THE STATION IS 65.40 FEET LEFT OF CENTERLINE OF HWY. 412, 5.20 FEET SOUTH OF A WITNESS POST, ACROSS HWY. FROM 4 R'S CONSTRUCTION CO. DRIVEWAY, APPROXIMATELY 250 FEET EAST OF FIRE HYDRANT.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    SILOPORT Ref Mon # 2    DECAPORT Ref Mon # 3    BENTPORT	<b>Comments</b> OLD PN: 91040002
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040003	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	207,010.1289	
<b>Easting (M)</b>	179,630.3880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	679,165.7312	
<b>Easting (SFT)</b>	589,337.3646	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	31.9186472
<b>Scale Factor</b>	0.999988904		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM STATE LINE IN SILOAM SPRINGS, GO 7.125 MILES TO A COUNTY ROAD JCT. AND STATION ON THE LEFT, IN CORNER OF PASTURE ON LEFT SIDE OF COUNTY ROAD, ACROSS HWY. FROM WEST ENTRANCE OF REST AREA, 3.30 FEET SOUTH OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TELEPHONE POLE		135	8.69	28.5
MK # 2	TOP EDGE OF STEEL FENCE POST		120	6.92	22.7
MK # 3	NONE		0	0.00	0.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="SILOPORT"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="DECAPORT"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="BENTPORT"/>	<p>OLD PN: 91040003</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040004	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	207,226.9210	
<b>Easting (M)</b>	179,454.6010	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	679,876.9900	
<b>Easting (SFT)</b>	588,760.6368	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	36.1363310
<b>Scale Factor</b>	0.999989248		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM SILOAM SPRINGS, GO 7.125 MILES EAST FROM STATE LINE TO COUNTY ROAD ON LEFT, GO 0.08 MILES TO FIELD ROAD ON LEFT AND CONTINUE ON TO GAP IN CROSS FENCE. PASS THROUGH GAP AND CONTINUE TO TOP OF HILL AND STATION, 2.40 FEET EAST OF A WITNESS POST.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN POWER POLE		335	16.55	54.3	
MK # 2	NONE		0	0.00	0.0	
MK # 3	NONE		0	0.00	0.0	

  

Area Reference Monuments (used for Processing)		<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p style="text-align: center;">Comments</p> <p>OLD PN: 91040004</p> </div>
Ref Mon # 1	SILOPORT	
Ref Mon # 2	DECAPORT	
Ref Mon # 3	BENTPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040005	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 207,138.9389		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 187,111.2620		<b>Latitude</b> 36 10 38.3406816
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 22 0.1125588
<b>Northing (SFT)</b> 679,588.3354		<b>Ellipsoid Height (M):</b> 280.818
<b>Easting (SFT)</b> 613,880.8654		<b>Geoid Height (M):</b> -28.649
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 22 37.8460688	<b>Location Description</b>  FROM SILOAM SPRINGS, GO 12.12 MILES EAST FROM STATE LINE ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 0.30 FEET SOUTH OF A WITNESS POST, 750 FEET EAST OF A LARGE BARN.
<b>Scale Factor</b> 0.999989410	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 10" ELM	0	16.67	54.7
<b>MK # 2</b>	NBC IN TELEPHONE POLE	40	16.46	54.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> SILOPORT <b>Ref Mon # 2</b> DECAPORT <b>Ref Mon # 3</b> BENTPORT	<b>Comments</b> OLD PN: 91040005
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160022	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100306
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,348.3429	
<b>Easting (M)</b>	547,384.6850	
<b>Elevation (M)*</b>	70.899	
<b>Northing (SFT)</b>	558,884.5217	
<b>Easting (SFT)</b>	1,795,877.9207	
<b>Elevation (SFT)*</b>	232.608	

  

<b>Convergence Angle</b>	0	56	58.5031335
<b>Scale Factor</b>	0.999947296		
<b>Elevation Adjust. Factor</b>	0.9999888738		
<b>Combined Adjust. Factor</b>	0.9999361703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE TOWN OF MONETTE, GO WEST 3.58 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.65 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 6.32 METERS WEST OF THE END OF THE BRIDGE, 9.50 METERS FROM THE CENTERLINE OF FIELD ENTRANCE, AND 0.77 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160022 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	PUNCH MARK TOP METAL GUARD RAIL POST	40	1.18	3.9	
<b>MK # 2</b>	PUNCH MARK TOP METAL GUARD RAIL POST	5	1.63	5.3	
<b>MK # 3</b>	PUNCH MARK TOP METAL GUARD RAIL POST	0	5.44	17.8	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD PAR 1</p> <p><b>Ref Mon # 2</b>    VILLPORT</p> <p><b>Ref Mon # 3</b>    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on levels by consultant for Job# 100567</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160022A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100306
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,037.7769	
<b>Easting (M)</b>	547,365.1690	
<b>Elevation (M)*</b>	70.230	
<b>Northing (SFT)</b>	561,146.4397	
<b>Easting (SFT)</b>	1,795,813.8920	
<b>Elevation (SFT)*</b>	230.413	

  

<b>Convergence Angle</b>	0	56	58.3155387
<b>Scale Factor</b>	0.999947819		
<b>Elevation Adjust. Factor</b>	0.9999889787		
<b>Combined Adjust. Factor</b>	0.9999367983		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO WEST ON STATE HIGHWAY 18 3.11 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.35 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 11.0 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160022A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRUGATED METAL PIPE	169	5.15	16.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    AHTD PAR 1 Ref Mon # 2    VILLPORT Ref Mon # 3    MANIPORT	<b>Comments</b> Elevation based on levels by consultant for Job# 100567
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160023	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> MY CORPS OF	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100308, 100653
--------------------------	-------------------------------------	-------------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 173,993.7720		<b>Latitude</b> 35 53 24.6479568
<b>Easting (M)</b> 550,441.0240		<b>Longitude</b> 90 20 1.0038804
<b>Elevation (M)*</b> 72.048		<b>Ellipsoid Height (M):</b> 43.987
		<b>Geoid Height (M):</b> -28.016

  

<b>Northing (SFT)</b> 570,844.5670		<b>Location Description</b>
<b>Easting (SFT)</b> 1,805,905.2596		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO EAST 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.45 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 12.38 METERS FROM US ARMY CORPS OF ENG. BM 0-9-7-91, 12.30 METERS FROM THE EAST END OF THE BRIDGE, AND 0.67 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160023 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 236.377		
<b>Convergence Angle</b> 0 58 10.8106111		
<b>Scale Factor</b> 0.999950148		
<b>Elevation Adjust. Factor</b> 0.9999886934		
<b>Combined Adjust. Factor</b> 0.9999388420		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	US ARMY CORPS OF ENG. BENCH MARK 0-9-7-91	275	12.38	40.6
<b>MK # 2</b>	EAST END OF GUARD RAIL	90	10.88	35.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR 1	Elevation based on levels by consultant for Job# 100567
<b>Ref Mon # 2</b> VILLPORT	
<b>Ref Mon # 3</b> MANIPOINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160024	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100303
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,205.4999	
<b>Easting (M)</b>	532,344.7760	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	545,292.5443	
<b>Easting (SFT)</b>	1,746,534.4859	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	51	8.2861955
<b>Scale Factor</b>	0.999944559		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158 , GO WEST ON HIGHWAY 18 2.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.25 METERS FROM THE CENTERLINE OF A GRAVEL DRIVE, 19.3 METERS FROM THE CENTERLINE OF HIGHWAY 18 , 13.55 METERS FROM THE CENTERLINE OF CRAIGHEAD COUNTY ROAD 945, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END CORRUGATED METAL PIPE	245	10.40	34.1
<b>MK # 2</b>	WEST END CORRUGATED METAL PIPE	115	8.60	28.2
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD PAR 1</p> <p><b>Ref Mon # 2</b>    VILLPORT</p> <p><b>Ref Mon # 3</b>    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160024A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100303
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,146.4240	
<b>Easting (M)</b>	531,791.6660	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	545,098.7261	
<b>Easting (SFT)</b>	1,744,719.8242	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	50	55.4444663
<b>Scale Factor</b>	0.999944526		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158, GO WEST ON HIGHWAY 18 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS FROM THE CENTERLINE OF HIGHWAY 18, 21.65 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 160024A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRUGATED METAL PIPE	335	4.65	15.3
MK # 2	TELEPHONE JUNCTION BOX	240	19.30	63.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    VILLPORT</p> <p>Ref Mon # 3    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160025	<b>Date Monumented</b> 12/17/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 349	<b>Job Number:</b> 100569
--------------------------	--------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,658.1670	
<b>Easting (M)</b>	508,264.8420	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	553,339.3362	
<b>Easting (SFT)</b>	1,667,532.2358	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	50.7695016
<b>Scale Factor</b>	0.999946467		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	250	24.60	80.7
MK # 2	TELEPHONE JUNCTION BOX	1	29.40	96.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BUTLER, MEM2	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 AHTD HAR 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 50 51.4508172
<b>Longitude</b>	90 48 5.2152192
<b>Ellipsoid Height (M):</b>	57.222
<b>Geoid Height (M):</b>	-27.683

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.0 METERS EAST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	160025A
<b>Geodetic Azimuth</b>	183 33 44
<b>Grid Azimuth</b>	182 51 53

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160025A	<b>Date Monumented</b> 12/17/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 349	<b>Job Number:</b> 100569
---------------------------	--------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,073.6880	
<b>Easting (M)</b>	508,235.5930	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	551,421.7580	
<b>Easting (SFT)</b>	1,667,436.2747	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	49.9263256
<b>Scale Factor</b>	0.999946050		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	354	12.00	39.4
<b>MK # 2</b>	FENCE POST	185	14.60	47.9
<b>MK # 3</b>	NORTH END OF CORRIGATED METAL PIPE	118	4.00	13.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BUTLER, MEM2 <b>Ref Mon # 2</b> AHTD PAR 1 <b>Ref Mon # 3</b> AHTD HAR 1	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 50 32.4991824
<b>Longitude</b>	90 48 6.6642264
<b>Ellipsoid Height (M):</b>	54.565
<b>Geoid Height (M):</b>	-27.678

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.80 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.5 METERS WEST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	160025
<b>Geodetic Azimuth</b>	3 33 43
<b>Grid Azimuth</b>	2 51 53

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160026	<b>Date Monumented</b> 10/19/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> CR203	<b>Job Number:</b> 100611, 100412
--------------------------	--------------------------------------	------------------------------	----------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,464.5549	
<b>Easting (M)</b>	507,111.8250	
<b>Elevation (M)*</b>	76.797	
<b>Northing (SFT)</b>	529,738.2939	
<b>Easting (SFT)</b>	1,663,749.3792	
<b>Elevation (SFT)*</b>	251.959	

  

<b>Convergence Angle</b>	0	41	22.0251222
<b>Scale Factor</b>	0.999941927		
<b>Elevation Adjust. Factor</b>	0.9999879481		
<b>Combined Adjust. Factor</b>	0.9999298758		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	3337	7.49	24.6
MK # 2	POWER POLE	25	7.60	24.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 <b>Ref Mon # 3</b> BLMM	<b>Comments</b>  3wire levels ran by S5111 from NGS K183 under Job # 100611 Elev was found to be 251.9824. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.
--	--

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 58.5079068
<b>Longitude</b>	90 48 54.6127488
<b>Ellipsoid Height (M):</b>	49.162
<b>Geoid Height (M):</b>	-27.634

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 226 SOUTH AND STATE HIGHWAY 49 SOUTH, WEST OF VALLEY VIEW, GO SOUTH ON HIGHWAY 49 1.7 MILES TO COUNTY ROAD 202 AND TURN RIGHT AND GO ACROSS RAILROAD TRACKS TO COUNTY ROAD 203 AND TURN RIGHT AND GO 0.40 MILES TO THE STATION ON THE LEFT, WEST OF THE CENTERLINE OF THE ROAD 10.10 METERS AND EAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160026 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160027	<b>Date Monumented</b> 10/19/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100611, 100639
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,995.6159	
<b>Easting (M)</b>	512,615.3030	
<b>Elevation (M)*</b>	81.873	
<b>Northing (SFT)</b>	528,199.7832	
<b>Easting (SFT)</b>	1,681,805.3733	
<b>Elevation (SFT)*</b>	268.612	

  

<b>Convergence Angle</b>	0	43	29.4025155
<b>Scale Factor</b>	0.999941638		
<b>Elevation Adjust. Factor</b>	0.9999871516		
<b>Combined Adjust. Factor</b>	0.9999287904		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	298	16.20	53.1
<b>MK # 2</b>	COMBINATION POLE	300	19.50	64.0
<b>MK # 3</b>	NORTHEAST CORNER BOX CULVERT	267	13.00	42.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER	3wire levels ran by S5111 from NGS K183 under Job # 100611. Confirmed Elevation ran with 3wire by crew S5101 from NGS C 76 under Job #100639 on 1-19-07.
<b>Ref Mon # 2</b> MEM2	
<b>Ref Mon # 3</b> BLMM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160028	<b>Date Monumented</b> 5/30/2006	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> NA	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,562.4949	
<b>Easting (M)</b>	494,402.6970	
<b>Elevation (M)*</b>	73.887	
<b>Northing (SFT)</b>	533,340.4520	
<b>Easting (SFT)</b>	1,622,052.8484	
<b>Elevation (SFT)*</b>	242.411	

  

<b>Convergence Angle</b>	0	36	27.8190775
<b>Scale Factor</b>	0.999942621		
<b>Elevation Adjust. Factor</b>	0.9999884049		
<b>Combined Adjust. Factor</b>	0.9999310265		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	168	6.80	22.3
MK # 2	Guy	165	13.19	43.3
MK # 3	water well	127	20.12	66.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

  

Location Description
To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 0.95 miles to county road 264 on the left, turn left on cr264 and go 0.05 miles to the station on the left. 28.10 feet south of the center of cr264 and 21.6 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160028 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

  

<b>AZ Mark Station</b>	160028A	
<b>Geodetic Azimuth</b>	254 34 38	
<b>Grid Azimuth</b>	253 58 11	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200006	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 01914,070224,RX0028, 07029
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,984.7769	
<b>Easting (M)</b>	362,194.1910	
<b>Elevation (M)*</b>	56.717	
<b>Northing (SFT)</b>	1,824,093.3889	
<b>Easting (SFT)</b>	1,188,298.7750	
<b>Elevation (SFT)*</b>	186.080	

  

<b>Convergence Angle</b>	0	13	45.3039287
<b>Scale Factor</b>	0.999918688		
<b>Elevation Adjust. Factor</b>	0.9999910993		
<b>Combined Adjust. Factor</b>	0.9999097880		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.12 KM (16.85 MI) TO THE MARKS MEMORIAL CHURCH OF GOD IN CHRIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 52.145 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 38.083 METERS SOUTH EAST OF THE CENTER OF THE CHURCH FRONT DOORS, 26.476 METERS SOUTH OF A LIGHT POLE, 19.900 METERS NORTH OF A GRAVEL ENTRANCE TO THE CHURCH, 15.271 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Light pole	287	27.63	90.6
<b>MK # 2</b>	Power pole	227	28.41	93.2
<b>MK # 3</b>	Light pole	198	25.82	84.7

  

Area Reference Monuments (used for Processing)		<b>Comments</b> 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 1</b>	ARCM, IULM,S 197,K 124	
<b>Ref Mon # 2</b>	700014,270005    070003,0700	
<b>Ref Mon # 3</b>	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200006A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914,070244,RX0028
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,555.9510	
<b>Easting (M)</b>	362,213.5050	
<b>Elevation (M)*</b>	57.668	
<b>Northing (SFT)</b>	1,822,686.4826	
<b>Easting (SFT)</b>	1,188,362.1410	
<b>Elevation (SFT)*</b>	189.201	

  

<b>Convergence Angle</b>	0	13	44.8448731
<b>Scale Factor</b>	0.999918646		
<b>Elevation Adjust. Factor</b>	0.9999909500		
<b>Combined Adjust. Factor</b>	0.9999095968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Triangle blaze in pine tree	030	13.18	43.2
<b>MK # 2</b>	Triangle blaze in pine tree	147	16.38	53.7
<b>MK # 3</b>	Triangle blaze in pine tree	254	36.96	121.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    4    6.6000036
<b>Longitude</b>	92    24    33.7512924
<b>Ellipsoid Height (M):</b>	31.676
<b>Geoid Height (M):</b>	-25.993

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.55 KM (17.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.481 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.547 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200007	<b>Date Monumented</b> 6/16/1999	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 7	<b>Job Number:</b> 070160
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	539,083.0441	
<b>Easting (M)</b>	320,179.9050	
<b>Elevation (M)*</b>	49.387	
<b>Northing (SFT)</b>	1,768,641.6205	
<b>Easting (SFT)</b>	1,050,456.9050	
<b>Elevation (SFT)*</b>	162.031	

  

<b>Convergence Angle</b>	0	28	59.3359179
<b>Scale Factor</b>	0.999920536		
<b>Elevation Adjust. Factor</b>	0.9999922496		
<b>Combined Adjust. Factor</b>	0.9999127862		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE BRACE POST	315	9.41	30.9
MK # 2	WOODEN FENCE POST	130	6.40	21.0
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	S 197
Ref Mon # 2	HOPEPORT
Ref Mon # 3	AP 1970 STA A3 HOT

  

--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200007A	<b>Date Monumented</b> 6/16/1999	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 7	<b>Job Number:</b> 070160
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	539,333.9701	
<b>Easting (M)</b>	320,050.7490	
<b>Elevation (M)*</b>	48.267	
<b>Northing (SFT)</b>	1,769,464.8669	
<b>Easting (SFT)</b>	1,050,033.1657	
<b>Elevation (SFT)*</b>	158.356	

  

<b>Convergence Angle</b>	0	29	2.1963656
<b>Scale Factor</b>	0.999920457		
<b>Elevation Adjust. Factor</b>	0.9999924254		
<b>Combined Adjust. Factor</b>	0.9999128830		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 7, LOCATED IN SPARKMAN, GO NORTH ON STATE HIGHWAY 7 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.47 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 10.43 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 282.239 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					200007
MK # 2	NONE					152 16 49.08710
MK # 3	NONE					152 45 51.27920

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197	
Ref Mon # 2 HOPEPORT	
Ref Mon # 3 AP 1970 STA A3 HOT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200008	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 229	<b>Job Number:</b> 070161
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	560,522.6544	
<b>Easting (M)</b>	350,409.4351	
<b>Elevation (M)*</b>	83.746	
<b>Northing (SFT)</b>	1,838,981.4086	
<b>Easting (SFT)</b>	1,149,634.9550	
<b>Elevation (SFT)*</b>	274.757	

  

<b>Convergence Angle</b>	0	18	3.0821228
<b>Scale Factor</b>	0.999919401		
<b>Elevation Adjust. Factor</b>	0.9999868577		
<b>Combined Adjust. Factor</b>	0.9999062598		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 9.90 KM (6.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 229 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 396.360 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    300001</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200008A	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 229	<b>Job Number:</b> 070161
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	560,905.3591				
<b>Easting (M)</b>	350,512.4199				
<b>Elevation (M)*</b>	89.569				
<b>Northing (SFT)</b>	1,840,236.9990				
<b>Easting (SFT)</b>	1,149,972.8310				
<b>Elevation (SFT)*</b>	293.861				

  

<b>Convergence Angle</b>	0	18	0.8767248
<b>Scale Factor</b>	0.999919485		
<b>Elevation Adjust. Factor</b>	0.9999859439		
<b>Combined Adjust. Factor</b>	0.9999054300		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	219	13.30	43.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	200008
<b>Geodetic Azimuth</b>	194 45 40.02214
<b>Grid Azimuth</b>	195 03 40.89657

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> K 124	ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81
<b>Ref Mon # 2</b> S 197	
<b>Ref Mon # 3</b> 300001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200009	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 229	<b>Job Number:</b> 070161
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	563,171.6103				
<b>Easting (M)</b>	350,156.8955				
<b>Elevation (M)*</b>	80.471				
<b>Northing (SFT)</b>	1,847,672.1915				
<b>Easting (SFT)</b>	1,148,806.4147				
<b>Elevation (SFT)*</b>	264.012				

  

<b>Convergence Angle</b>	0	18	8.9030271
<b>Scale Factor</b>	0.999920055		
<b>Elevation Adjust. Factor</b>	0.9999873716		
<b>Combined Adjust. Factor</b>	0.9999074276		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 6.44 KM (4.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 229 AND 3.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 464.631 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    300001</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200009A	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 229	<b>Job Number:</b> 070161
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,202.3565	
<b>Easting (M)</b>	349,693.3286	
<b>Elevation (M)*</b>	83.907	
<b>Northing (SFT)</b>	1,847,773.0646	
<b>Easting (SFT)</b>	1,147,285.5289	
<b>Elevation (SFT)*</b>	275.285	

  

<b>Convergence Angle</b>	0	18	19.0337816
<b>Scale Factor</b>	0.999920063		
<b>Elevation Adjust. Factor</b>	0.9999868324		
<b>Combined Adjust. Factor</b>	0.9999068965		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 229 AND 2.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 464.631 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    300001</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200010	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	535,552.7751				
<b>Easting (M)</b>	361,775.3730				
<b>Elevation (M)*</b>	70.109				
<b>Northing (SFT)</b>	1,757,059.3963				
<b>Easting (SFT)</b>	1,186,924.7029				
<b>Elevation (SFT)*</b>	230.015				

  

<b>Convergence Angle</b>	0	13	52.6461367
<b>Scale Factor</b>	0.999921711		
<b>Elevation Adjust. Factor</b>	0.9999889978		
<b>Combined Adjust. Factor</b>	0.9999107096		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gas regulator station	127	7.17	23.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200010A	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	536,130.6731	
<b>Easting (M)</b>	361,617.0060	
<b>Elevation (M)*</b>	61.783	
<b>Northing (SFT)</b>	1,758,955.3833	
<b>Easting (SFT)</b>	1,186,405.1272	
<b>Elevation (SFT)*</b>	202.701	

  

<b>Convergence Angle</b>	0	13	56.1468327
<b>Scale Factor</b>	0.999921485		
<b>Elevation Adjust. Factor</b>	0.9999903043		
<b>Combined Adjust. Factor</b>	0.9999117900		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Head wall	028	10.36	34.0
<b>MK # 2</b>	Fence corner	258	4.87	16.0
<b>MK # 3</b>	Power pole	170	18.53	60.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220011A	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 65	<b>Job Number:</b> R20094
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	522,808.6046	
<b>Easting (M)</b>	449,789.9668	
<b>Elevation (M)*</b>	45.873	
<b>Northing (SFT)</b>	1,715,247.8969	
<b>Easting (SFT)</b>	1,475,685.9161	
<b>Elevation (SFT)*</b>	150.502	

  

<b>Convergence Angle</b>	0	18	3.1118424
<b>Scale Factor</b>	0.999928839		
<b>Elevation Adjust. Factor</b>	0.9999928011		
<b>Combined Adjust. Factor</b>	0.9999216406		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					220011
MK # 2	NONE					351 31 15.48666
MK # 3	NONE					351 13 12.37967

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 210004	
Ref Mon # 3 090007	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220012	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 65	<b>Job Number:</b> 020138
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	517,243.6351	
<b>Easting (M)</b>	450,672.1007	
<b>Elevation (M)*</b>	46.155	
<b>Northing (SFT)</b>	1,696,990.1595	
<b>Easting (SFT)</b>	1,478,580.0504	
<b>Elevation (SFT)*</b>	151.427	

  

<b>Convergence Angle</b>	0	18	21.6545202
<b>Scale Factor</b>	0.999933198		
<b>Elevation Adjust. Factor</b>	0.9999927568		
<b>Combined Adjust. Factor</b>	0.9999259553		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CMP	165	16.15	53.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	
<b>Ref Mon # 2</b> 210004	
<b>Ref Mon # 3</b> 090007	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 33 43 21.1120680

**Longitude** 91 27 11.6725896

**Ellipsoid Height (M):** 20.130

**Geoid Height (M):** -26.015

  

**Location Description**

TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.79 KM (0.49 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF A FIELD ENTRANCE, 12.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220012A	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 65	<b>Job Number:</b> 020138
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	516,714.3043
<b>Easting (M)</b>	450,757.0975
<b>Elevation (M)*</b>	46.321
<b>Northing (SFT)</b>	1,695,253.5134
<b>Easting (SFT)</b>	1,478,858.9107
<b>Elevation (SFT)*</b>	151.971

  

<b>Convergence Angle</b>	0 18 23.4408239
<b>Scale Factor</b>	0.999933652
<b>Elevation Adjust. Factor</b>	0.9999927308
<b>Combined Adjust. Factor</b>	0.9999263833

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.65 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: AHTD MON 1</p> <p>Ref Mon # 2: 210004</p> <p>Ref Mon # 3: 090007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220013	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> 20111, 020462, 001873, 02047
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,185.9605	
<b>Easting (M)</b>	418,504.1355	
<b>Elevation (M)*</b>	82.023	
<b>Northing (SFT)</b>	1,644,307.6054	
<b>Easting (SFT)</b>	1,373,042.3179	
<b>Elevation (SFT)*</b>	269.104	

  

<b>Convergence Angle</b>	0	6	41.6191885
<b>Scale Factor</b>	0.999949883		
<b>Elevation Adjust. Factor</b>	0.9999871281		
<b>Combined Adjust. Factor</b>	0.9999370117		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 1.34 KM (0.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.50 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A FIELD, 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 870.751 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220014	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,646.9992	
<b>Easting (M)</b>	417,930.6531	
<b>Elevation (M)*</b>	71.076	
<b>Northing (SFT)</b>	1,629,416.0299	
<b>Easting (SFT)</b>	1,371,160.8177	
<b>Elevation (SFT)*</b>	233.189	

  

<b>Convergence Angle</b>	0	6	28.9864024
<b>Scale Factor</b>	0.999955772		
<b>Elevation Adjust. Factor</b>	0.9999888460		
<b>Combined Adjust. Factor</b>	0.9999446185		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 7.90 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	220014A
<b>Geodetic Azimuth</b>	201 49 56.50793
<b>Grid Azimuth</b>	201 43 27.56747

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220014A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	495,828.7397				
<b>Easting (M)</b>	417,604.6257				
<b>Elevation (M)*</b>	63.645				
<b>Northing (SFT)</b>	1,626,731.4568				
<b>Easting (SFT)</b>	1,370,091.1762				
<b>Elevation (SFT)*</b>	208.809				

  

<b>Convergence Angle</b>	0	6	21.8807380
<b>Scale Factor</b>	0.999956887		
<b>Elevation Adjust. Factor</b>	0.9999900121		
<b>Combined Adjust. Factor</b>	0.9999468996		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220015	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	493,247.6704		
<b>Easting (M)</b>	416,241.2986		
<b>Elevation (M)*</b>	56.262		
<b>Northing (SFT)</b>	1,618,263.3986		
<b>Easting (SFT)</b>	1,365,618.3272		
<b>Elevation (SFT)*</b>	184.586		

  

<b>Convergence Angle</b>	0	5	52.2118087
<b>Scale Factor</b>	0.999960510		
<b>Elevation Adjust. Factor</b>	0.9999911707		
<b>Combined Adjust. Factor</b>	0.9999516811		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	152	3.75	12.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 STELL	
Ref Mon # 2 S 197	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 30 26.1712368
<b>Longitude</b>	91 49 30.7027524
<b>Ellipsoid Height (M):</b>	30.481
<b>Geoid Height (M):</b>	-25.644

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 14.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 731.911 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220015A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	493,916.3193	
<b>Easting (M)</b>	416,538.8755	
<b>Elevation (M)*</b>	55.826	
<b>Northing (SFT)</b>	1,620,457.1242	
<b>Easting (SFT)</b>	1,366,594.6274	
<b>Elevation (SFT)*</b>	183.156	

  

<b>Convergence Angle</b>	0	5	58.6903195
<b>Scale Factor</b>	0.999959556		
<b>Elevation Adjust. Factor</b>	0.9999912392		
<b>Combined Adjust. Factor</b>	0.9999507955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 9.06 KM (5.63 MI) TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE STATION IS 16.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 5.50 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 731.911 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CMP	152	3.75	12.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    S 197</p> <p><b>Ref Mon # 3</b>    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220016	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,360.7607	
<b>Easting (M)</b>	414,328.6588	
<b>Elevation (M)*</b>	64.073	
<b>Northing (SFT)</b>	1,598,949.4291	
<b>Easting (SFT)</b>	1,359,343.2747	
<b>Elevation (SFT)*</b>	210.213	

  

<b>Convergence Angle</b>	0	5	10.5418086
<b>Scale Factor</b>	0.999969388		
<b>Elevation Adjust. Factor</b>	0.9999899450		
<b>Combined Adjust. Factor</b>	0.9999593333		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.98 KM (9.93 MI) TO THE STATION ON THE LEFT, THE STATION IS 19.85 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 19.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 0.45 METERS EAST OF A CONCRETE RIGHT OF WAY MARKER AND 0.37 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 611.458 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220016A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,850.0573	
<b>Easting (M)</b>	414,695.3195	
<b>Elevation (M)*</b>	49.980	
<b>Northing (SFT)</b>	1,600,554.7297	
<b>Easting (SFT)</b>	1,360,546.2274	
<b>Elevation (SFT)*</b>	163.976	

  

<b>Convergence Angle</b>	0	5	18.5047266
<b>Scale Factor</b>	0.999968618		
<b>Elevation Adjust. Factor</b>	0.9999921566		
<b>Combined Adjust. Factor</b>	0.9999607748		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 661.458 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220017	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	482,348.9389		
<b>Easting (M)</b>	413,934.8122		
<b>Elevation (M)*</b>	58.795		
<b>Northing (SFT)</b>	1,582,506.4770		
<b>Easting (SFT)</b>	1,358,051.1297		
<b>Elevation (SFT)*</b>	192.897		

  

<b>Convergence Angle</b>	0	5	1.8471181
<b>Scale Factor</b>	0.999977617		
<b>Elevation Adjust. Factor</b>	0.9999907732		
<b>Combined Adjust. Factor</b>	0.9999683904		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CMP	162	12.20	40.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 32.5285560
<b>Longitude</b>	91 51 0.6894036
<b>Ellipsoid Height (M):</b>	33.069
<b>Geoid Height (M):</b>	-25.651

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.08 KM (13.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.65 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.756 METERS.</p>

<b>AZ Mark Station</b>	220017A
<b>Geodetic Azimuth</b>	181 00 22.80283
<b>Grid Azimuth</b>	180 55 20.95818

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220017A	<b>Date Monumented</b> 3/8/2001	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20111
---------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,552.2918	
<b>Easting (M)</b>	413,921.9847	
<b>Elevation (M)*</b>	47.792	
<b>Northing (SFT)</b>	1,579,892.8107	
<b>Easting (SFT)</b>	1,358,009.0448	
<b>Elevation (SFT)*</b>	156.798	

  

<b>Convergence Angle</b>	0	5	1.5440308
<b>Scale Factor</b>	0.999978981		
<b>Elevation Adjust. Factor</b>	0.9999924999		
<b>Combined Adjust. Factor</b>	0.9999714811		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CONCRETE HEADWALL	350	12.20	40.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 6.6708576
<b>Longitude</b>	91 51 1.2309300
<b>Ellipsoid Height (M):</b>	22.092
<b>Geoid Height (M):</b>	-25.650

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.85 KM (13.58 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.765 METERS.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220018	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 001930,DDK
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,298.7482	
<b>Easting (M)</b>	410,095.0520	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,664,362.6431	
<b>Easting (SFT)</b>	1,345,453.5164	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	39.2471897
<b>Scale Factor</b>	0.999942734		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 278 LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 FOR 8.20 KM (5.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278, 0.65 METERS SOUTH OF A BARB WIRE FENCE LINE, AND 0.52 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220018 2002 SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	220018A
MK # 2					<b>Geodetic Azimuth</b>	266 28 05
MK # 3					<b>Grid Azimuth</b>	266 24 25

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> K 124 <b>Ref Mon # 2</b> S 197 <b>Ref Mon # 3</b> AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220018A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 001930,DDK
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,233.5191	
<b>Easting (M)</b>	409,056.2310	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,664,148.6372	
<b>Easting (SFT)</b>	1,342,045.3179	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	16.6844467
<b>Scale Factor</b>	0.999942804		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 278 LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 FOR 9.25 KM (5.75 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278, 11.90 METERS EAST OF A FIELD ENTRANCE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230009	<b>Date Monumented</b> 3/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 286	<b>Job Number:</b> 80122, 080676
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	82,484.3829    0.0020
<b>Easting (M)</b>	350,938.1521    0.0020
<b>Elevation (M)*</b>	85.975

  

<b>Northing (SFT)</b>	270,617.5129	
<b>Easting (SFT)</b>	1,151,369.5873	
<b>Elevation (SFT)*</b>	282.070	

  

<b>Convergence Angle</b>	0   18	46.9189725
<b>Scale Factor</b>	0.999975078	
<b>Elevation Adjust. Factor</b>	0.9999865079	
<b>Combined Adjust. Factor</b>	0.9999615862	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	35   4   32.2237344
<b>Longitude</b>	92   32   16.6233840
<b>Ellipsoid Height:</b>	58.058
<b>Grid Northing (Meters)</b>	82,484.3941
<b>Grid Easting (Meters)</b>	350,938.1310

  

**Location Description**

THE STATION IS LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF CONWAY IN THE OLD FERRY LANDING PARK (TOAD SUCK LOCK AND DAM) ON THE EAST SIDE OF THE ARKANSAS RIVER IN A GRASS ISLAND IN A PAVED PARKING LOT. THE STATION IS 158.861 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 43.632 METERS SOUTH OF THE CENTER OF A CONCRETE ROAD, 12.48 METERS EAST OF A WITNESS POST AND 9.1 METERS WEST OF THE CENTER OF A PAVED ROAD. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 230009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN WOODEN POST	273	12.61	41.4
<b>MK # 2</b>	LIGHT POLE	66	20.69	67.9
<b>MK # 3</b>	CORNER POST OF CHAIN LINK FENCE	132	18.16	59.6

  

<b>AZ Mark Station</b>	530010
<b>Geodetic Azimuth</b>	286 12 30.99383
<b>Grid Azimuth</b>	286 31 17.99262

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR (ROCKPORT)</p> <p><b>Ref Mon # 2</b>    ARRV (PJTC CAMPUS)</p> <p><b>Ref Mon # 3</b>    ARSC (EARNHART HALE)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>SUPERCEDED GEOID HT. WAS -27.949m</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230011A	<b>Date Monumented</b> 3/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65B	<b>Job Number:</b> 73, 080122,012119,080496, 08
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	81,724.4790    0.0040
<b>Easting (M)</b>	360,669.2016    0.0040
<b>Elevation (M)*</b>	89.533

  

<b>Northing (SFT)</b>	268,124.3949	
<b>Easting (SFT)</b>	1,183,295.5389	
<b>Elevation (SFT)*</b>	293.742	

  

<b>Convergence Angle</b>	0	15	3.3298176
<b>Scale Factor</b>	0.999976071		
<b>Elevation Adjust. Factor</b>	0.9999859496		
<b>Combined Adjust. Factor</b>	0.9999620209		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	35    4    9.1185960
<b>Longitude</b>	92    25    52.3829604
<b>Ellipsoid Height:</b>	61.775
<b>Grid Northing (Meters)</b>	81,724.4761
<b>Grid Easting (Meters)</b>	360,669.1810

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65B, STATE HIGHWAY 60 AND STATE HIGHWAY 365, LOCATED ON THE SOUTH SIDE OF CONWAY, GO NORTH ON US HIGHWAY 65B FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.60 METERS WEST-SOUTHWEST OF THE CENTER OF US HIGHWAY 65B, 7.35 METERS EAST-NORTHEAST OF A CHAIN LINK FENCE AND A WITNESS POST AND 7.25 METERS WEST-SOUTHWEST OF THE WEST RAIL. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 230011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance	
		Meters	Feet
<b>MK # 1</b> TELEPHONE JUNCTION BOX	169	24.40	80.1
<b>MK # 2</b> POWER POLE	323	28.00	91.9
<b>MK # 3</b>			

  

<b>AZ Mark Station</b>	230011
<b>Geodetic Azimuth</b>	154 47 24.55323
<b>Grid Azimuth</b>	155 02 27.86051

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3-Wire Levels were ran by S5105 Using NGS BM "B291" Elevation=91.423 meters NAVD88 Datum. **The Posted Elevations were ran with 3-wire levels by S5103 on 9/06 from NGS BM's B291/D291** *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION    NAD 83 (1997) ARE ROCKPORT, PJTC CAMPUS & EARNHART HALE AND THE OLD GEOID HT. WAS -27.753m
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230012	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 001848
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	85,305.1761	
<b>Easting (M)</b>	387,804.8110	
<b>Elevation (M)*</b>	99.979	

  

<b>Northing (SFT)</b>	279,872.0653	
<b>Easting (SFT)</b>	1,272,322.9508	
<b>Elevation (SFT)*</b>	328.014	

  

<b>Convergence Angle</b>	0	4	40.2062521
<b>Scale Factor</b>	0.999971100		
<b>Elevation Adjust. Factor</b>	0.9999843103		
<b>Combined Adjust. Factor</b>	0.9999554107		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 4.16 KM (2.59 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.99 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012 1999" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	230012A
<b>Geodetic Azimuth</b>	69 17 47.560746
<b>Grid Azimuth</b>	69 22 27.698556

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    SEARPORT</p> <p><b>Ref Mon # 2</b>    AHTD LR1</p> <p><b>Ref Mon # 3</b>    EARNHART HALE</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>LEVELS TO THE STATION WAS RUN BY CREW S5103</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230012A	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 8,012154,050263Mobie LiDA
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	85,495.6265
<b>Easting (M)</b>	388,310.8164
<b>Elevation (M)*</b>	96.058
<b>Northing (SFT)</b>	280,496.9013
<b>Easting (SFT)</b>	1,273,983.0701
<b>Elevation (SFT)*</b>	315.149

  

<b>Convergence Angle</b>	0	4	28.5855866
<b>Scale Factor</b>	0.999970850		
<b>Elevation Adjust. Factor</b>	0.9999849256		
<b>Combined Adjust. Factor</b>	0.9999557761		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	6	14.0405760
<b>Longitude</b>	92	7	41.5688520
<b>Ellipsoid Height:</b>	68.642		
<b>Grid Northing (Meters)</b>	85,495.6141		
<b>Grid Easting (Meters)</b>	388,310.7760		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.421 METERS EAST OF THE CENTER OF THE EAST GRAVEL DRIVE TO A METAL BUILDING, 11.354 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012A 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	GUY POLE		67	21.34	70.0	230012
MK # 2	GUY POLE		105	23.35	76.6	249 17 59.04369
MK # 3	RCP		255	18.25	59.9	249 22 27.69856

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	<p>LEVELS TO THE STATION WAS RUN BY CREW S5103. RE-TIED IN APRIL 2012 BY DIGITAL LEVELS FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. TBM 996 WAS ESTABLISHED FROM NGS L 69 WHICH NO LONGER EXISTS. UPDATED ELEVATION FROM 315.1732' TO 315.1492' IN MAY 2012.</p>
Ref Mon # 2 AHTD LR1	
Ref Mon # 3 EARNHART HALE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230013	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,128.6951	
<b>Easting (M)</b>	373,699.1390	
<b>Elevation (M)*</b>	96.070	
<b>Northing (SFT)</b>	272,731.3938	
<b>Easting (SFT)</b>	1,226,044.5919	
<b>Elevation (SFT)*</b>	315.190	

  

<b>Convergence Angle</b>	0	10	4.1614291
<b>Scale Factor</b>	0.999974059		
<b>Elevation Adjust. Factor</b>	0.9999849237		
<b>Combined Adjust. Factor</b>	0.9999589831		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	
<b>Ref Mon # 1</b>	AHTD LR 1
<b>Ref Mon # 2</b>	EARNHART HALE
<b>Ref Mon # 3</b>	230011

  

Comments

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 4 56.2306152
<b>Longitude</b>	92 17 18.2580072
<b>Ellipsoid Height (M):</b>	68.516
<b>Geoid Height (M):</b>	-27.566

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.61 KM (1.00 MI) TO STATION ON THE RIGHT. THE STATION IS 20.8 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230013A	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	82,938.5051	
<b>Easting (M)</b>	373,246.5700	
<b>Elevation (M)*</b>	93.167	
<b>Northing (SFT)</b>	272,107.4121	
<b>Easting (SFT)</b>	1,224,559.7884	
<b>Elevation (SFT)*</b>	305.665	

  

<b>Convergence Angle</b>	0	10	14.5443895
<b>Scale Factor</b>	0.999974322		
<b>Elevation Adjust. Factor</b>	0.9999853793		
<b>Combined Adjust. Factor</b>	0.9999597016		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END CMP	62	22.95	75.3
<b>MK # 2</b>	EAST END CMP	218	11.53	37.8
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR 1	
<b>Ref Mon # 2</b> EARNHART HALE	
<b>Ref Mon # 3</b> 230011	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    4    50.0155500
<b>Longitude</b>	92    17    36.1012380
<b>Ellipsoid Height (M):</b>	65.629
<b>Geoid Height (M):</b>	-27.569

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.726 METERS WEST OF A PAVED DRIVE, 19.983 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 15.499 METERS EAST OF THE CENTER OF LIBERTY LP AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230014	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,083.9881	
<b>Easting (M)</b>	378,475.2550	
<b>Elevation (M)*</b>	109.071	
<b>Northing (SFT)</b>	272,584.7176	
<b>Easting (SFT)</b>	1,241,714.2324	
<b>Elevation (SFT)*</b>	357.844	

  

<b>Convergence Angle</b>	0	8	14.4464831
<b>Scale Factor</b>	0.999974103		
<b>Elevation Adjust. Factor</b>	0.9999828835		
<b>Combined Adjust. Factor</b>	0.9999569869		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 4.81 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "230014 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	230014A
<b>Geodetic Azimuth</b>	268 31 12.86316
<b>Grid Azimuth</b>	268 39 27.38512

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1	
Ref Mon # 2 EARNHART HALE	
Ref Mon # 3 230011	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230014A	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,071.4581	
<b>Easting (M)</b>	377,940.5280	
<b>Elevation (M)*</b>	109.232	
<b>Northing (SFT)</b>	272,543.6088	
<b>Easting (SFT)</b>	1,239,959.8823	
<b>Elevation (SFT)*</b>	358.372	

  

<b>Convergence Angle</b>	0	8	26.7289809
<b>Scale Factor</b>	0.999974122		
<b>Elevation Adjust. Factor</b>	0.9999828582		
<b>Combined Adjust. Factor</b>	0.9999569807		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CP		90		47.54	156.0
MK # 2	CP		268		31.25	102.5
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD LR 1	
Ref Mon # 2 EARNHART HALE	
Ref Mon # 3 230011	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 4 54.7438980
<b>Longitude</b>	92 14 30.8192820
<b>Ellipsoid Height (M):</b>	81.728
<b>Geoid Height (M):</b>	-27.503

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) EAST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.301 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230014A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230015	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,677.7561	
<b>Easting (M)</b>	382,738.3190	
<b>Elevation (M)*</b>	102.424	
<b>Northing (SFT)</b>	274,532.7715	
<b>Easting (SFT)</b>	1,255,700.6349	
<b>Elevation (SFT)*</b>	336.036	

  

<b>Convergence Angle</b>	0	6	36.5458242
<b>Scale Factor</b>	0.999973282		
<b>Elevation Adjust. Factor</b>	0.9999839266		
<b>Combined Adjust. Factor</b>	0.9999572090		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	255	2.35	7.7
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	218	6.90	22.6
<b>MK # 3</b>	WEST END OF RCP	87	11.75	38.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR 1	ELEVATION ON THIS POINT WAS ESTABLISHED BY 3 WIRE LEVELING FROM TBM 901 BY CREW S5102, ELEVATION ON TBM 901 WAS ESTABLISHED BY CREW S5103.
<b>Ref Mon # 2</b> EARNHART HALE	
<b>Ref Mon # 3</b> 230011	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230015A	<b>Date Monumented</b> 4/1/1999	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149,050263
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,563.3751	
<b>Easting (M)</b>	382,255.9860	
<b>Elevation (M)*</b>	101.877	
<b>Northing (SFT)</b>	274,157.5065	
<b>Easting (SFT)</b>	1,254,118.1807	
<b>Elevation (SFT)*</b>	334.241	

  

<b>Convergence Angle</b>	0	6	47.6210486
<b>Scale Factor</b>	0.999973438		
<b>Elevation Adjust. Factor</b>	0.9999840124		
<b>Combined Adjust. Factor</b>	0.9999574509		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 107, LOCATED IN VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.065 METERS EAST OF A CONCRETE DRIVE, 10.190 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230015A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF RCP	251	44.68	146.6
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD LR 1</p> <p><b>Ref Mon # 2</b>    EARNHART HALE</p> <p><b>Ref Mon # 3</b>    230011</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Used to process data for photogrammetry on job 050263. Resulted in Northing Error of 0.3' and Easting Error of 0.1'</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230016	<b>Date Monumented</b> 3/24/2000	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 008570
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	96,717.0203	
<b>Easting (M)</b>	358,418.6473	
<b>Elevation (M)*</b>	95.716	
<b>Northing (SFT)</b>	317,312.4241	
<b>Easting (SFT)</b>	1,175,911.8454	
<b>Elevation (SFT)*</b>	314.028	

  

<b>Convergence Angle</b>	0	15	56.6156612
<b>Scale Factor</b>	0.999957794		
<b>Elevation Adjust. Factor</b>	0.9999849793		
<b>Combined Adjust. Factor</b>	0.9999427739		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.00 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS. ELEVATION ON THIS MARK WAS ESTABLISH BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK D 18.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	171	19.00	62.3
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    EARNHART HALE</p> <p>Ref Mon # 2    PJTC CAMPUS</p> <p>Ref Mon # 3    230011</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 Wire from NGS point D 18</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330011	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	198,000.7208 0.0020
<b>Easting (M)</b>	387,146.1997 0.0020
<b>Elevation (M)*</b>	108.330
<b>Northing (SFT)</b>	649,607.3648
<b>Easting (SFT)</b>	1,270,162.1568
<b>Elevation (SFT)*</b>	355.412

  

<b>Convergence Angle</b>	0 4 59.0937265
<b>Scale Factor</b>	0.999979227
<b>Elevation Adjust. Factor</b>	0.9999829998
<b>Combined Adjust. Factor</b>	0.9999622272

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Latitude</b>	36 7 4.5703920
<b>Longitude</b>	92 8 33.9959148
<b>Ellipsoid Height:</b>	80.173
<b>Grid Northing (Meters)</b>	198,000.7298
<b>Grid Easting (Meters)</b>	387,146.1976

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER "JERALD'S STATION" BUILDIN	160	14.97	49.1
MK # 2	CL HWY. 5	265	9.60	31.5
MK # 3	POWER POLE	245	2.19	7.2

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARM3 Ref Mon # 2    ARHR Ref Mon # 3    ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0805m).
--	---

  

**Location Description**  
  
 FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO SOUTH 350 FEET TO THE STATION MARK ON THE LEFT. THE STATION MARK IS LOCATED IN CALICO ROCK; EAST OF THE INTERSECTION OF HWY.5 (MAIN ST.) AND CALICO ST., BEING 31.5 FEET EAST OF THE CENTERLINE OF HWY.5 (MAIN ST.) AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330011", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330011A	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	198,007.7236 0.0020
<b>Easting (M)</b>	386,872.3087 0.0020
<b>Elevation (M)*</b>	136.077

  

<b>Northing (SFT)</b>	649,630.3398	
<b>Easting (SFT)</b>	1,269,263.5661	
<b>Elevation (SFT)*</b>	446.447	

  

<b>Convergence Angle</b>	0 5	5.4670979
<b>Scale Factor</b>	0.999979237	
<b>Elevation Adjust. Factor</b>	0.9999786455	
<b>Combined Adjust. Factor</b>	0.9999578829	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Latitude</b>	36 7	4.7846460
<b>Longitude</b>	92 8	44.9487888
<b>Ellipsoid Height:</b>	107.912	
<b>Grid Northing (Meters)</b>	198,007.7349	
<b>Grid Easting (Meters)</b>	386,872.3025	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	280	27.98	91.8
MK # 2	POWER POLE	140	12.50	41.0
MK # 3	POWER POLE	55	9.97	32.7

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: ARM3 Ref Mon # 2: ARHR Ref Mon # 3: ARPG	<b>Comments</b>  ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0826m).
--	---

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID 18

**Latitude** 36 7 4.7842788

**Longitude** 92 8 44.9485404

**Ellipsoid Height (M):** 107.970 0.0110

**Geoid Height (M):** -28.093 0.0110

  

**Location Description**

FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO SOUTH 350 FEET ALONG HWY. 5 TO THE INTERSECTION OF HWY.5 (MAIN ST.) AND CALICO ST., TURN RIGHT (WEST) ON CALICO ST. AND GO 855 FEET TO THE STATION MARK ON THE RIGHT, BEING 14.0 FEET NORTH OF THE CENTERLINE OF CALICO ST. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330011A", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330012	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	199,573.3098	0.0030			
<b>Easting (M)</b>	385,634.1924	0.0020			
<b>Elevation (M)*</b>	171.572				
<b>Northing (SFT)</b>	654,766.7672				
<b>Easting (SFT)</b>	1,265,201.5129				
<b>Elevation (SFT)*</b>	562.900				

  

<b>Convergence Angle</b>	0	5	34.3357179
<b>Scale Factor</b>	0.999981556		
<b>Elevation Adjust. Factor</b>	0.9999730754		
<b>Combined Adjust. Factor</b>	0.9999546319		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	40	32.90	107.9
MK # 2	CL ROADRUNNER LN.	130	8.84	29.0
MK # 3	TELEPHONE POLE	220	4.33	14.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

  

Location Description	
FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.50 MILES TO THE STATION MARK ON THE LEFT, BEING 32.9 FEET SOUTHWEST OF THE CENTERLINE OF HWY.5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012", SET ON TOP OF A 5/8" REBAR.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330012A	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	199,835.7997	0.0030	
<b>Easting (M)</b>	385,419.0991	0.0030	
<b>Elevation (M)*</b>	185.257		
<b>Northing (SFT)</b>	655,627.9528		
<b>Easting (SFT)</b>	1,264,495.8276		
<b>Elevation (SFT)*</b>	607.797		

  

<b>Convergence Angle</b>	0	5	39.3516309
<b>Scale Factor</b>	0.999981951		
<b>Elevation Adjust. Factor</b>	0.9999709280		
<b>Combined Adjust. Factor</b>	0.9999528795		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" PINE TREE	250	13.14	43.1
<b>MK # 2</b>	POWER POLE	170	11.19	36.7
<b>MK # 3</b>	CL HWY. 5	58	9.91	32.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 8 4.0212708
<b>Longitude</b>	92 9 43.1794800
<b>Ellipsoid Height (M):</b>	157.046 0.0150
<b>Geoid Height (M):</b>	-28.105

  

Location Description
FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.70 MILES TO THE STATION MARK ON THE LEFT, BEING 32.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012A", SET ON TOP OF A 5/8" REBAR.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330013	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	202,054.5839	0.0020	
<b>Easting (M)</b>	383,693.4549	0.0020	
<b>Elevation (M)*</b>	204.890		
<b>Northing (SFT)</b>	662,907.4140		
<b>Easting (SFT)</b>	1,258,834.2766		
<b>Elevation (SFT)*</b>	672.210		

  

<b>Convergence Angle</b>	0	6	19.6087205
<b>Scale Factor</b>	0.999985356		
<b>Elevation Adjust. Factor</b>	0.9999678471		
<b>Combined Adjust. Factor</b>	0.9999532036		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	23" PINE TREE	210	23.90	78.4
<b>MK # 2</b>	CL GRAVEL DRWY	85	18.90	62.0
<b>MK # 3</b>	CL HWY. 5	0	10.48	34.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330013A	<b>Date Monumented</b> 3/9/2015	<b>Monumented By</b> CLSI	<b>County</b> Izard	<b>Route</b> 5	<b>Job Number:</b> 012231
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	202,171.6102	0.0030	
<b>Easting (M)</b>	383,185.6081	0.0030	
<b>Elevation (M)*</b>	212.023		
<b>Northing (SFT)</b>	663,291.3578		
<b>Easting (SFT)</b>	1,257,168.1159		
<b>Elevation (SFT)*</b>	695.613		

  

<b>Convergence Angle</b>	0	6	31.4362993
<b>Scale Factor</b>	0.999985537		
<b>Elevation Adjust. Factor</b>	0.9999667277		
<b>Combined Adjust. Factor</b>	0.9999522652		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL GRAVEL DRWY	100	16.79	55.1
<b>MK # 2</b>	18" POST OAK	335	9.42	30.9
<b>MK # 3</b>	CL HWY. 5	190	8.20	26.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330014	<b>Date Monumented</b> 9/8/2015	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 69B	<b>Job Number:</b> B089
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,040.1775	
<b>Easting (M)</b>	416,298.4519	
<b>Elevation (M)*</b>	214.928	
<b>Northing (SFT)</b>	623,490.1490	
<b>Easting (SFT)</b>	1,365,805.8376	
<b>Elevation (SFT)*</b>	705.141	

  

<b>Convergence Angle</b>	0	6	18.9065290
<b>Scale Factor</b>	0.999968353		
<b>Elevation Adjust. Factor</b>	0.9999662720		
<b>Combined Adjust. Factor</b>	0.9999346261		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	70	6.40	21.0
MK # 2	WOODEN FENCE CORNER	126	1.20	3.9
MK # 3	POWER POLE	341	30.80	101.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARHR	Elevation is based on three wire from the static GPS observation on AHTD GPS Mon 330014A.

  

**Vertical Determined By:**    None

**Elevation Datum:**

**Geoid Datum:**    GEOID96

**Latitude**    36    2    46.1083200

**Longitude**    91    49    8.8449960

**Ellipsoid Height (M):**    187.083   

**Geoid Height (M):**    -27.848

**Location Description**

TO REACH FROM THE JUNCTION OF HWY. 69B AND HWY. 289 IN SAGE. GO 102 FT. SOUTHEAST OF THE CENTER OF HWY. 69B AND HWY. 289 JUNCTION, AND 42 FT. SOUTH OF THE CENTERLINE OF HWY. 69B. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "330014 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330014A	<b>Date Monumented</b> 9/8/2015	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 289	<b>Job Number:</b> B089
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,523.1583	
<b>Easting (M)</b>	416,285.1457	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	625,074.7285	
<b>Easting (SFT)</b>	1,365,762.1822	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	18.6177977
<b>Scale Factor</b>	0.999968967		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	242	0.90	3.0
MK # 2	POWER POLE W/2 GUY WIRES	161	7.60	24.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARBT Ref Mon # 2    ARPG Ref Mon # 3    ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation is based on static GPS observation.</td> </tr> </table>	Comments	Elevation is based on static GPS observation.
Comments			
Elevation is based on static GPS observation.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330015	<b>Date Monumented</b> 12/23/2015	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 56	<b>Job Number:</b> 50331
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	207,319.9680	0.0024			
<b>Easting (M)</b>	416,201.1255	0.0024			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	680,182.2617				
<b>Easting (SFT)</b>	1,365,486.5259				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	6	17.3788693
<b>Scale Factor</b>	0.999993936		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW RD. FOR 3.1 MILES TO A GATE ON THE RIGHT, PASS THROUGH GATE AND GO +/- 225 FT. TO THE STATION NEAR THE EAST SIDE OF THE CREST OF THE HILL.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	6 INCH OAK TREE	58	6.60	21.7
<b>MK # 2</b>	4 INCH OAK TREE	180	8.60	28.2
<b>MK # 3</b>	10 INCH OAK TREE	280	13.10	43.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> P777 <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARM3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330015A	<b>Date Monumented</b> 12/23/2015	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 56	<b>Job Number:</b> 50331
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	206,266.4125    0.0025
<b>Easting (M)</b>	416,091.8521    0.0025
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	676,725.7217
<b>Easting (SFT)</b>	1,365,128.0181
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	6	14.7889387
<b>Scale Factor</b>	0.999992164		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW ROAD FOR 2.40 MILES TO THE CREST OF A HILL AND THE STATION ON THE RIGHT. THE STATION IS 1.5 METERS WEST OF A FENCE AND 7.4 METERS EAST OF THE CENTETRLINE OF THE ROAD. IT IS ACROSS THE ROAD FROM A DOUBLE GATE. THERE ARE NO REFERENCE MARKS</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    P777</p> <p>Ref Mon # 2    ARBT</p> <p>Ref Mon # 3    ARM3</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340001	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> RX0017
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 144,631.9320		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 468,959.5830		<b>Latitude</b> 35 38 4.5831552
<b>Elevation (M)*</b> 71.734		<b>Longitude</b> 91 14 19.0099572
<b>Northing (SFT)</b> 474,513.2636		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,538,578.2319		<b>Geoid Height (M):</b> -28.310
<b>Elevation (SFT)*</b> 235.347		

  

<b>Convergence Angle</b> 0 26 34.9797159	<b>Scale Factor</b> 0.999936320	<b>Location Description</b> FROM THE JCT. OF HWY. 67 AND HWY. 17 EAST OF NEWPORT, GO NORTH ON HWY. 67 FOR 2.95 MILES (4.75 KM) TO THE STATION ON THE LEFT. THE STATION IS LOCATED IN THE MEDIAN 9.142 METERS WEST OF THE EDGE OF THE NORTHBOUND CONCRETE LANE, 9.153 METERS EAST OF THE EDGE OF THE SOUTHBOUND CONCRETE LANE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340001" ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH.
<b>Elevation Adjust. Factor</b> 0.9999887427	<b>Combined Adjust. Factor</b> 0.9999250634	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					34001A
MK # 2	NONE					180 53 43.13096
MK # 3	NONE					180 27 08.15114

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> SEDGWICK <b>Ref Mon # 2</b> NEWSPORT <b>Ref Mon # 3</b> WALDENBURG	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340001A	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> RX0017
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	144,165.6730	
<b>Easting (M)</b>	468,955.9030	
<b>Elevation (M)*</b>	72.942	
<b>Northing (SFT)</b>	472,983.5455	
<b>Easting (SFT)</b>	1,538,566.1584	
<b>Elevation (SFT)*</b>	239.311	

  

<b>Convergence Angle</b>	0	26	34.8112240
<b>Scale Factor</b>	0.999936259		
<b>Elevation Adjust. Factor</b>	0.9999885532		
<b>Combined Adjust. Factor</b>	0.9999248129		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 67 AND HWY. 17 EAST OF NEWPORT, GO NORTH ON HWY. 67 FOR 4.25 KM (2.64 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.134 METERS WEST OF THE WEST EDGE OF THE NORTHBOUND CONCRETE LANES, 9.180 METERS EAST OF THE EAST EDGE OF THE SOUTHBOUND CONCRETE LANES AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>AZ Mark Station</b>	340001
<b>Geodetic Azimuth</b>	0 53 42.96226
<b>Grid Azimuth</b>	0 27 08.15114

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340002	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> N\A	<b>Job Number:</b> RX0017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	148,198.8710	
<b>Easting (M)</b>	471,462.5160	
<b>Elevation (M)*</b>	71.451	
<b>Northing (SFT)</b>	486,215.7959	
<b>Easting (SFT)</b>	1,546,789.9379	
<b>Elevation (SFT)*</b>	234.419	

  

<b>Convergence Angle</b>	0	27	33.5294614
<b>Scale Factor</b>	0.999936964		
<b>Elevation Adjust. Factor</b>	0.9999887871		
<b>Combined Adjust. Factor</b>	0.9999257518		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN T-12-N R-2-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.8 MILES) TO THE JCT. WITH HWY. 980, TURN LEFT AND CONTINUE AHEAD ON HWY. 18 FOR 1.69 KM (1.05 MILES) TO A SHARP CURVE AND CO. RD. NO. 43 STRAIGHT AHEAD, TAKE CO. RD. NO. 43 AND GO 0.80 KM (0.50 MILES) TO A CURVE RIGHT, TURN RIGHT (EAST) AND GO 0.80 KM (0.50 MILES) TO A CURVE LEFT, TURN LEFT AND GO 0.61 KM (0.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 7.90 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 43, 57.48 METERS NORTHWEST OF A ONE STORY FRAME HOUSE AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC POWER POLE	180	50.83	166.8	34002A
MK # 2	NBC POWER POLE	3	42.44	139.2	182 03 49.84637
MK # 3	NONE				181 36 16.31648

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720001	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 1634,BR0405
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	208,463.1843	0.0040	
<b>Easting (M)</b>	190,156.4331	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	683,932.9638		
<b>Easting (SFT)</b>	623,871.5643		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	21	27.6861697
<b>Scale Factor</b>	0.999991707		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	11	23.6686056
<b>Longitude</b>	94	19	59.5462080
<b>Ellipsoid Height:</b>	294.503		
<b>Grid Northing (Meters)</b>	208,463.7730		
<b>Grid Easting (Meters)</b>	190,156.3420		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	332			4.42	14.5
MK # 2	NBC IN TOP OF FENCE POST	12			3.41	11.2
MK # 3	NBC IN TOP OF FENCE POST	80			1.89	6.2

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> MOA2 <b>Ref Mon # 3</b> CTA1	<b>Comments</b>  OLD PN: 91720001 (Superceded Ref Monuments were Siloport, Decaport, & Bentport.)
--	---

  

Location Description	
FROM THE WASHINGTON AND BENTON CO. LINE, GO 0.10 MILES EAST ON HWY. 412 TO A COUNTY ROAD ON THE RIGHT AND THE STATION, THE STATION IS IN A PASTURE NEAR FENCE CORNER, 12.00 FEET RIGHT OF THE CENTERLINE OF THE COUNTY ROAD, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 412, 2.20 FEET SOUTH OF A WITNESS POST.	

  

<b>AZ Mark Station</b>	91720002 AZ. MK.
<b>Geodetic Azimuth</b>	173 41 48
<b>Grid Azimuth</b>	175 03 16

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720002	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	207,314.8540	
<b>Easting (M)</b>	190,255.7600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	680,165.4835	
<b>Easting (SFT)</b>	624,197.4393	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	24.7402069
<b>Scale Factor</b>	0.999989819		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    SILOPORT Ref Mon # 2    DECAPORT Ref Mon # 3    BENTPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91720002</td> </tr> </table>	Comments	OLD PN: 91720002
Comments			
OLD PN: 91720002			

  

Location Description	
FROM THE STATE LINE IN SILOAM SPRINGS, GO 13.45 MILES EAST TO A COUNTY ROAD ON THE RIGHT, GO 0.25 MILES TO A HOUSE ON THE LEFT, FOLLOW FIELD ROAD FOR 0.85 MILES TO THE TOP OF THE SECOND HILL AND THE STATION, 2.20 FEET SOUTHWEST OF A WITNESS POST.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720003	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 207,006.1229		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 194,016.5560		<b>Latitude</b> 36 10 39.3299472
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 17 23.7305040
<b>Northing (SFT)</b> 679,152.5882		<b>Ellipsoid Height (M):</b> 353.674
<b>Easting (SFT)</b> 636,535.9841		<b>Geoid Height (M):</b> -28.615
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 19 57.0195921	<b>Location Description</b>  FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 2.60 MILES EAST ON HWY. 412 TO THE STATION ON THE LEFT, THE STATION IS 3.75 FEET SOUTH OF A WITNESS POST AND 34.00 FEET FROM THE CENTERLINE OF HWY. 412.
<b>Scale Factor</b> 0.999989460	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	55	2.84	9.3
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 SILOPORT	OLD PN: 91720003 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.
Ref Mon # 2 DECAPORT	
Ref Mon # 3 BENTPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720004	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	206,957.9480	
<b>Easting (M)</b>	194,640.3850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	678,994.5344	
<b>Easting (SFT)</b>	638,582.6631	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	42.4708349
<b>Scale Factor</b>	0.999989405		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 3.20 MILES TO THE STATION ON THE RIGHT, STATION IS AT THE CORNER OF A WOODEN FENCE, THE STATION IS 1.25 FEET NORTH OF A WITNESS POST AND 33.80 FEET SOUTH OF THE CENTERLINE OF HWY. 412.				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN SIDE OF FENCE POST		178	0.55	1.8	
MK # 2	NBC IN SIDE OF FENCE POST		228	0.53	1.7	
MK # 3	NBC IN TOP OF FENCE POST		256	3.05	10.0	

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    SILOPORT Ref Mon # 2    DECAPORT Ref Mon # 3    BENTPORT	<b>Comments</b>  OLD PN: 91720004 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720005	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 412	<b>Job Number:</b> 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,652.6910	
<b>Easting (M)</b>	201,201.2710	
<b>Elevation (M)*</b>	395.183	
<b>Northing (SFT)</b>	677,993.0371	
<b>Easting (SFT)</b>	660,107.8366	
<b>Elevation (SFT)*</b>	1,296.531	

  

<b>Convergence Angle</b>	-1	17	9.5717550
<b>Scale Factor</b>	0.999989152		
<b>Elevation Adjust. Factor</b>	0.9999379867		
<b>Combined Adjust. Factor</b>	0.9999271393		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	10	33.2110488
<b>Longitude</b>	94	12	35.9759304
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	206,653.2727		
<b>Grid Easting (Meters)</b>	201,201.1250		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	262	30.45	99.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY 040018	Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.
Ref Mon # 2: WWED 040044	
Ref Mon # 3:	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720006	<b>Date Monumented</b> 3/16/1991	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 412	<b>Job Number:</b> 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,600.1150	
<b>Easting (M)</b>	201,754.1900	
<b>Elevation (M)*</b>	396.146	
<b>Northing (SFT)</b>	677,820.5440	
<b>Easting (SFT)</b>	661,921.8717	
<b>Elevation (SFT)*</b>	1,299.690	

  

<b>Convergence Angle</b>	-1	16	56.6724305
<b>Scale Factor</b>	0.999989087		
<b>Elevation Adjust. Factor</b>	0.9999378356		
<b>Combined Adjust. Factor</b>	0.9999269233		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	10	31.9082304
<b>Longitude</b>	94	12	13.8084516
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	206,600.7116		
<b>Grid Easting (Meters)</b>	201,754.0406		

  

Location Description				
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 7.70 MILES EAST ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 33.60 FEET FROM BACK OF A CONCRETE CURB AND 1.90 FEET NORTH OF A WITNESS POST.				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	278	21.58	70.8	
MK # 2	NBC IN SIDE OF FENCE POST	241	2.27	7.4	
MK # 3	NBC IN SIDE OF FENCE POST	93	3.99	13.1	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720008	<b>Date Monumented</b> 5/11/1993	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 170	<b>Job Number:</b> 40128
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 162,413.8530		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 195,892.9990		<b>Latitude</b> 35 46 34.2899580
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 15 27.7457832
<b>Northing (SFT)</b> 532,852.7827		<b>Ellipsoid Height (M):</b> 321.952
<b>Easting (SFT)</b> 642,692.2809		<b>Geoid Height (M):</b> -28.977
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 18 49.5281842	<b>Location Description</b>  THE STATION IS LOCATED IN DEVILS DEN STATE PARK NORTH OF ALMA ON HWY. 170 0.77 MILES NORTH OF A BRIDGE OVER LEE CREEK AT THE JCT. OF CO. RD. NO. 61, 21 FEET WEST OF THE CENTERLINE OF HWY. 170 AND 21.85 FEET NORTH OF A WITNESS POST.
<b>Scale Factor</b> 0.999941528	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	"SQUARE" CUT IN CONCRETE HEADWALL	64	30.36	99.6		SEE NOTES
MK # 2	NBC IN 12" WHITE OAK	139	20.88	68.5		283 11 25.2
MK # 3	NBC IN 24" RED OAK	222	29.35	96.3		284 30 14.72

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> BOSTON AZ. #2 <b>Ref Mon # 2</b> GRASSY ROCK RESET <b>Ref Mon # 3</b> NONE	<b>Comments</b> AZIMUTH MARK IS VPT-616 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93720008)
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720009	<b>Date Monumented</b> 6/28/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397, R40081
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,103.2049	
<b>Easting (M)</b>	184,054.7940	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	597,450.2647	
<b>Easting (SFT)</b>	603,853.1033	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	23	34.8260336
<b>Scale Factor</b>	0.999956375		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	15	15.75	51.7
<b>MK # 2</b>	GAS METER	28	18.00	59.1
<b>MK # 3</b>	GUY POLE	78	4.80	15.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="GAYLOR"/>	
<b>Ref Mon # 2</b> <input type="text" value="ENES"/>	
<b>Ref Mon # 3</b> <input type="text" value="OKMU"/>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 57 3.8968056
<b>Longitude</b>	94 23 38.0332500
<b>Ellipsoid Height (M):</b>	411.858
<b>Geoid Height (M):</b>	-28.161

Location Description
<p>FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 2.977 KM (1.85 MILES) TO THE JCT. OF HWY. 62 AND CO. RD. NO. 620 AND THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTERLINE OF HWY. 62, 9.00 METERS SOUTH OF THE CENTER OF CO. RD. NO. 620 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720009A	<b>Date Monumented</b> 6/28/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397, R40081
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,079.3179	
<b>Easting (M)</b>	184,489.6940	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	597,371.8955	
<b>Easting (SFT)</b>	605,279.9377	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	23	24.7170024
<b>Scale Factor</b>	0.999956361		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 45CM METAL CULVERT	58	5.40	17.7
MK # 2	TELEPHONE JUNCTION BOX	89	24.60	80.7
MK # 3	CORNER FENCE POST	95	4.85	15.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 57 3.4646832

**Longitude** 94 23 20.6607696

**Ellipsoid Height (M):** 413.533

**Geoid Height (M):** -28.155

  

**Location Description**

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 3.460 KM (2.15 MILES) TO A DRIVEWAY AND THE STATION ON THE RIGHT. THE STATION IS 11.10 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 10 METERS WEST OF THE CENTER OF A DRIVEWAY AND 0.42 METERS NORTH OF A WITNESS POST SET ALONG A WOODEN FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720010	<b>Date Monumented</b> 6/28/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397, 040411, R40081
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	183,013.3979				
<b>Easting (M)</b>	187,458.6700				
<b>Elevation (M)*</b>	371.036				
<b>Northing (SFT)</b>	600,436.4563				
<b>Easting (SFT)</b>	615,020.6532				
<b>Elevation (SFT)*</b>	1,217.307				

  

<b>Convergence Angle</b>	-1	22	16.3150904
<b>Scale Factor</b>	0.999957384		
<b>Elevation Adjust. Factor</b>	0.9999417758		
<b>Combined Adjust. Factor</b>	0.9998991623		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	280	4.80	15.7
<b>MK # 2</b>	GAS METER	85	16.20	53.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> GAYLOR	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.
<b>Ref Mon # 2</b> ENES	
<b>Ref Mon # 3</b> OKMU	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040006	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	206,476.5720	
<b>Easting (M)</b>	186,834.7750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	677,415.2200	
<b>Easting (SFT)</b>	612,973.7576	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	43.9113819
<b>Scale Factor</b>	0.999988327		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN DOUBLE 14" ASH	88	16.89	55.4
MK # 2	NBC IN 36" MAPLE	267	23.65	77.6
MK # 3	NONE	0	0.00	0.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SILOPORT <b>Ref Mon # 2</b> DECAPORT <b>Ref Mon # 3</b> BENTPORT	OLD PN: 91040006     

  

Location Description			
FROM SILOAM SPRINGS, GO 12.0 MILES EAST ON HWY. 412 TO A LARGE BARN AND FIELD ROAD ON THE RIGHT, FOLLOW ROAD TO RIVER CROSSING, CROSS RIVER AND FOLLOW ROAD 030MILES TO THE STATION ON THE LEFT, THE STATION IS 150 FEET FROM CENTERLINE OF THE ROAD, 2.50 FEET NORTH OF A WITNESS POST.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040007	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	207,462.1770	
<b>Easting (M)</b>	184,464.3650	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	680,648.8257	
<b>Easting (SFT)</b>	605,196.8375	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	23	39.6471372
<b>Scale Factor</b>	0.999989832		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    SILOPORT Ref Mon # 2    DECAPORT Ref Mon # 3    BENTPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91040007</td> </tr> </table>	Comments	OLD PN: 91040007
Comments			
OLD PN: 91040007			

  

Location Description			
FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.47 MILES TO THE STATION ON THE LEFT, THE STATION IS 1.20 FEET SOUTH OF A WITNESS POST, 150 FEET EAST OF A PRIVATE DRIVE.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040008	<b>Date Monumented</b> 3/15/1991	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 1634
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 206,298.8530		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 184,149.4250		<b>Latitude</b> 36 10 8.7675924
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 23 57.7837860
<b>Northing (SFT)</b> 676,832.1536		<b>Ellipsoid Height (M):</b> 295.150
<b>Easting (SFT)</b> 604,163.5719		<b>Geoid Height (M):</b> -28.663
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 23 46.3188533	<b>Location Description</b>  FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.70 MILES TO A COUNTY ROAD ON THE RIGHT, GO 1.10 MILES TO A FIELD ENTRANCE AND THE STATION ON THE LEFT, THE STATION IS ON THE RIGHT SIDE OF CENTERLINE OF THE FIELD ENTRANCE, 20 FEET AND 33 FEET FROM THE CENTERLINE OF THE COUNTY ROAD.
<b>Scale Factor</b> 0.999987937	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TOP OF FENCE POST	138	20.62	67.7
<b>MK # 2</b>	NBC IN TOP OF FENCE POST	2	2.99	9.8
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> SILOPORT <b>Ref Mon # 2</b> DECAPORT <b>Ref Mon # 3</b> BENTPORT	<b>Comments</b> OLD PN: 91040008
--	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040009	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 71	<b>Job Number:</b> R90072,R90014,012069,09025
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 224,334.5021		<b>Latitude</b> 36 20 8.7067428
<b>Easting (M)</b> 203,976.4150		<b>Longitude</b> 94 11 0.6340020
<b>Elevation (M)*</b> 397.901		<b>Ellipsoid Height (M):</b> 369.876
<b>Northing (SFT)</b> 736,004.1123		<b>Geoid Height (M):</b> -28.051
<b>Easting (SFT)</b> 669,212.6215		
<b>Elevation (SFT)*</b> 1,305.449		

  

<b>Convergence Angle</b> -1 16 14.0960716	<b>Location Description</b>  THE STATION IS ON HWY. 71 AT THE HWY. 71B OVERPASS ON THE NORTHWEST END OF THE BRIDGE OVER HWY. 71B, 169.80 FEET NORTH OF THE BRIDGE END, 29 FEET WEST OF THE THE CENTERLINE OF THE SOUTHBOUND LANE AND 2 FEET EAST OF A WITNESS POST.
<b>Scale Factor</b> 1.000021855	
<b>Elevation Adjust. Factor</b> 0.9999375602	
<b>Combined Adjust. Factor</b> 0.9999594138	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN GUARD RAIL POST	18	3.98	13.1
<b>MK # 2</b>	PUNCH POINT IN GUARD RAIL POST	157	2.28	7.5
<b>MK # 3</b>	PUNCH POINT IN GUARD RAIL POST	183	7.74	25.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 040044, 040044A	3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> V 26	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040010A	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 71	<b>Job Number:</b> R90014
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 224,386.7331		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 207,558.1470		<b>Latitude</b> 36 20 12.9538644
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 8 37.0963320
<b>Northing (SFT)</b> 736,175.4735		<b>Ellipsoid Height (M):</b> 372.498
<b>Easting (SFT)</b> 680,963.6873		<b>Geoid Height (M):</b> -28.712
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 14 50.5716266	<b>Location Description</b>  FROM THE JCT. OF HWY. 71B AND DIXIELAND ROAD IN ROGERS, GO NORTH ON DIXIELAND ROAD 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 27 FEET WEST OF THE CENTERLINE OF DIXIELAND ROAD AND 2 FEET EAST OF A WITNESS POST.
<b>Scale Factor</b> 1.000022126	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN CORNER POST	0	30.52	100.1
<b>MK # 2</b>	PUNCH POINT IN CORNER POST	320	41.54	136.3
<b>MK # 3</b>	NBC POWER POLE	159	36.93	121.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BENTPORT NGS	
<b>Ref Mon # 2</b> ROGPORT NGS	
<b>Ref Mon # 3</b> V 26 NGS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040011	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> R90027
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	231,618.2981				
<b>Easting (M)</b>	194,845.3720				
<b>Elevation (M)*</b>	417.943				
<b>Northing (SFT)</b>	759,901.0330				
<b>Easting (SFT)</b>	639,255.1913				
<b>Elevation (SFT)*</b>	1,371.201				

  

<b>Convergence Angle</b>	-1	19	51.0359001
<b>Scale Factor</b>	1.000037079		
<b>Elevation Adjust. Factor</b>	0.9999344154		
<b>Combined Adjust. Factor</b>	0.9999714920		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	188	2.71	8.9
MK # 2	NBC IN FENCE POST	330	32.21	105.7
MK # 3	NBC IN FENCE POST	348	2.81	9.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BENTPORT <b>Ref Mon # 2</b> DECAPORT <b>Ref Mon # 3</b> 93040009 & 9304009A	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 23 58.2186876
<b>Longitude</b>	94 17 13.4474640
<b>Ellipsoid Height (M):</b>	389.154
<b>Geoid Height (M):</b>	-28.789

Location Description
FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 5.54 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 22 FEET WEST OF A DRIVEWAY AND 2.2 FEET EAST OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040011A	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> R90027
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	232,077.2291	
<b>Easting (M)</b>	194,455.9900	
<b>Elevation (M)*</b>	418.513	
<b>Northing (SFT)</b>	761,406.7091	
<b>Easting (SFT)</b>	637,977.6939	
<b>Elevation (SFT)*</b>	1,373.071	

  

<b>Convergence Angle</b>	-1	20	0.3753552
<b>Scale Factor</b>	1.000038089		
<b>Elevation Adjust. Factor</b>	0.9999343260		
<b>Combined Adjust. Factor</b>	0.9999724125		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 5.86 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 43 FEET WEST OF A GRAVEL DRIVEWAY AND 1.7 FEET NORTH OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN FENCE POST		118	17.34	56.9
MK # 2	NBC IN FENCE POST		140	1.69	5.5
MK # 3	NBC IN FENCE POST		292	3.68	12.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BENTPORT <b>Ref Mon # 2</b> DECAPORT <b>Ref Mon # 3</b> 93040009 & 9304009A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040012	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> R90027
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	228,277.2071	
<b>Easting (M)</b>	197,391.6190	
<b>Elevation (M)*</b>	382.836	
<b>Northing (SFT)</b>	748,939.4703	
<b>Easting (SFT)</b>	647,609.0033	
<b>Elevation (SFT)*</b>	1,256.021	

  

<b>Convergence Angle</b>	-1	18	49.8047655
<b>Scale Factor</b>	1.000029863		
<b>Elevation Adjust. Factor</b>	0.9999399242		
<b>Combined Adjust. Factor</b>	0.9999697854		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 57 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 66 FEET WEST OF THE CENTERLINE OF MEMORIAL ROAD AND 2 FEET NORTH OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE	114		17.79	58.4
MK # 2	CENTER OF TOP OF TELEPHONE BOX	119		15.59	51.1
MK # 3	NBC IN 30" OAK TREE	238		28.87	94.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="BENTPORT"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="DECAPORT"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="93040009 &amp; 9304009A"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040012A	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> R90027
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	228,300.6481	
<b>Easting (M)</b>	197,139.6560	
<b>Elevation (M)*</b>	381.635	
<b>Northing (SFT)</b>	749,016.3763	
<b>Easting (SFT)</b>	646,782.3547	
<b>Elevation (SFT)*</b>	1,252.081	

  

<b>Convergence Angle</b>	-1	18	55.6972273
<b>Scale Factor</b>	1.000029901		
<b>Elevation Adjust. Factor</b>	0.9999401126		
<b>Combined Adjust. Factor</b>	0.9999700118		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE POST	86	21.63	71.0
<b>MK # 2</b>	NBC IN FENCE POST	180	13.85	45.4
<b>MK # 3</b>	NBC IN POWER POLE	248	37.00	121.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BENTPORT	
<b>Ref Mon # 2</b> DECAPORT	
<b>Ref Mon # 3</b> 93040009 & 9304009A	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 22 12.3373848
<b>Longitude</b>	94 15 38.3473512
<b>Ellipsoid Height (M):</b>	352.881
<b>Geoid Height (M):</b>	-28.754

Location Description
<p>FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 2.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23 FEET NORTH OF THE CENTERLINE OF HWY. 72 AND 3 FEET SOUTH OF A WITNESS POST.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040013A	<b>Date Monumented</b> 4/26/1993	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 090178,R90027
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,336.2011	
<b>Easting (M)</b>	200,685.0120	
<b>Elevation (M)*</b>	386.188	
<b>Northing (SFT)</b>	752,413.8531	
<b>Easting (SFT)</b>	658,414.0769	
<b>Elevation (SFT)*</b>	1,267.018	

  

<b>Convergence Angle</b>	-1	17	33.5058799
<b>Scale Factor</b>	1.000032326		
<b>Elevation Adjust. Factor</b>	0.9999393982		
<b>Combined Adjust. Factor</b>	0.9999717222		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	22	48.5562540
<b>Longitude</b>	94	13	17.1025464
<b>Ellipsoid Height:</b>	357.634		
<b>Grid Northing (Meters)</b>	229,336.6725		
<b>Grid Easting (Meters)</b>	200,684.9747		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	196	20.61	67.6
MK # 2	NBC IN POWER POLE	240	38.45	126.2
MK # 3	NBC IN POWER POLE	347	21.86	71.7

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> BENTPORT, BENTPORT AZ <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> OKMU, CNWM CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    22    48.5409936
<b>Longitude</b>	94    13    17.1006240
<b>Ellipsoid Height (M):</b>	358.125
<b>Geoid Height (M):</b>	-28.063

  

Location Description
FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO NORTH ON HWY. 71B 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 44 FEET WEST OF THE CENTERLINE OF HWY. 71B, 81 FEET NORTH OF NORTHWEST 7TH STREET AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS STAMPED "9304013A"

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040014	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 9623
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 227,617.8611		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 181,298.0440		<b>Latitude</b> 36 21 37.9347840
<b>Elevation (M)*</b> 355.485		<b>Longitude</b> 94 26 12.9529068
<b>Northing (SFT)</b> 746,776.2660		<b>Ellipsoid Height (M):</b> 326.708
<b>Easting (SFT)</b> 594,808.6660		<b>Geoid Height (M):</b> -28.777
<b>Elevation (SFT)*</b> 1,166.287		

  

<b>Convergence Angle</b> -1 25 4.9736468	<b>Location Description</b> FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT ( BETHLEHEM ROAD ). TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.37 KM (0.23 MILES) TO THE STATION ON THE LEFT. THE STATION IS 6.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 1.17 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "040014" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 1.000027626	
<b>Elevation Adjust. Factor</b> 0.9999442159	
<b>Combined Adjust. Factor</b> 0.9999718404	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	3' IRON GATE POST	210	16.90	55.4		
MK # 2	3' IRON GATE POST	232	23.85	78.2		
MK # 3	NONE					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BENTPORT 1990	REPORTED DESTROYED BY S5112 IN JUNE 2019. REPLACED WITH GPS #040127 BY S5512 IN JUNE 2019 FOR JOB #090558.
Ref Mon # 2 DECAPOST 1990	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040014A	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 9623, 090558
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	227,578.0732    0.0020
<b>Easting (M)</b>	181,870.8084    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	746,645.7285	
<b>Easting (SFT)</b>	596,687.8106	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	51.5866128
<b>Scale Factor</b>	1.000027571		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	36    21    37.1213748
<b>Longitude</b>	94    25    49.9504296
<b>Ellipsoid Height:</b>	331.294
<b>Grid Northing (Meters)</b>	227,578.6221
<b>Grid Easting (Meters)</b>	181,870.7400

**Location Description**

FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT ( BETHLEHEM ROAD), TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.96 KM (0.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.00 METER NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	264	10.80	35.4
MK # 2	POWER POLE	15	17.50	57.4
MK # 3	POWER POLE	93	8.50	27.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARFS (BENTPORT 1990)	PREVIOUS ELEV. WAS 360.069m
Ref Mon # 2    ARHR (DECAPORT 1990)	
Ref Mon # 3    ARRV, CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040015	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 9623
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	227,341.1281	
<b>Easting (M)</b>	186,963.3980	
<b>Elevation (M)*</b>	401.344	
<b>Northing (SFT)</b>	745,868.3511	
<b>Easting (SFT)</b>	613,395.7483	
<b>Elevation (SFT)*</b>	1,316.743	

  

<b>Convergence Angle</b>	-1	22	52.6283291
<b>Scale Factor</b>	1.000027331		
<b>Elevation Adjust. Factor</b>	0.9999370200		
<b>Combined Adjust. Factor</b>	0.9999643493		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 1.496 KM (0.93 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.3 METERS NORTHEAST OF THE CENTER OF "SHIPE ROAD", 19.0 METERS NORTH OF THE CENTER OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015" SET ON TOP OF A 3/4 REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	335	9.90	32.5
MK # 2	TELEPHONE JUNCTION BOX	225	33.00	108.3
MK # 3	POWER POLE	75	1.20	3.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BENTPORT 1990</p> <p>Ref Mon # 2    DECAPORT 1990</p> <p>Ref Mon # 3    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040015A	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 9623
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	227,069.4671	
<b>Easting (M)</b>	186,590.5880	
<b>Elevation (M)*</b>	393.196	
<b>Northing (SFT)</b>	744,977.0766	
<b>Easting (SFT)</b>	612,172.6208	
<b>Elevation (SFT)*</b>	1,290.011	

  

<b>Convergence Angle</b>	-1	23	1.1738515
<b>Scale Factor</b>	1.000026735		
<b>Elevation Adjust. Factor</b>	0.9999382985		
<b>Combined Adjust. Factor</b>	0.9999650319		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 2.22 KM (1.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS SOUTH OF THE CENTER OF "SHIPE ROAD" AND 1.03 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/R CROSS TIE FENCE POST	290	12.10	39.7
<b>MK # 2</b>	R/R CROSS TIE FENCE POST	325	10.70	35.1
<b>MK # 3</b>	R/R CROSS TIE FENCE POST	0	14.10	46.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BENTPORT 1990</p> <p><b>Ref Mon # 2</b>    DECAPORT 1990</p> <p><b>Ref Mon # 3</b>    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040016	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090174,9623
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,282.7330	
<b>Easting (M)</b>	190,396.4870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	745,676.7665	
<b>Easting (SFT)</b>	624,659.1411	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	32.4923015
<b>Scale Factor</b>	1.000027382		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	21	34.2349632
<b>Longitude</b>	94	20	7.8038376
<b>Ellipsoid Height:</b>	392.171		
<b>Grid Northing (Meters)</b>	227,283.2433		
<b>Grid Easting (Meters)</b>	190,396.4382		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	270	10.20	33.5
MK # 2	8" WOODEN FENCE CORNER POST	305	1.35	4.4
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BENTPORT, BENTPORTAZ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKMU</td> </tr> </table>	Ref Mon # 1	BENTPORT, BENTPORTAZ	Ref Mon # 2	V26	Ref Mon # 3	OKMU	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	BENTPORT, BENTPORTAZ							
Ref Mon # 2	V26							
Ref Mon # 3	OKMU							
Comments								

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040016A	<b>Date Monumented</b> 5/17/1995	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090174,9623
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,227.6881	
<b>Easting (M)</b>	191,004.0070	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	745,496.1734	
<b>Easting (SFT)</b>	626,652.3130	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	18.2866933
<b>Scale Factor</b>	1.000027295		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	21	32.9158080
<b>Longitude</b>	94	19	43.3911180
<b>Ellipsoid Height:</b>	381.813		
<b>Grid Northing (Meters)</b>	227,228.1775		
<b>Grid Easting (Meters)</b>	191,003.9634		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	93	11.45	37.6
MK # 2	4" WOODEN FENCE POST	135	0.80	2.6
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BENTPORT,BENTPORTAZ	
Ref Mon # 2 V26	
Ref Mon # 3 OKMU	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 21 32.8999680
<b>Longitude</b>	94 19 43.3889040
<b>Ellipsoid Height (M):</b>	382.691
<b>Geoid Height (M):</b>	-28.008

Location Description
<p>FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 3.99 KM (2.48 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.5 METERS SOUTH OF THE CENTER OF HWY. 102, 19.5 METERS WEST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040016A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	040016
<b>Geodetic Azimuth</b>	273 49 20
<b>Grid Azimuth</b>	275 10 38

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040017A	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090196, 001742, 090506
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	200,661.6200
<b>Easting (M)</b>	172,080.6090
<b>Elevation (M)*</b>	327.987
<b>Northing (SFT)</b>	658,337.3316
<b>Easting (SFT)</b>	564,567.7980
<b>Elevation (SFT)*</b>	1,076.071

  

<b>Convergence Angle</b>	-1	28	23.8591992
<b>Scale Factor</b>	0.999978847		
<b>Elevation Adjust. Factor</b>	0.9999485308		
<b>Combined Adjust. Factor</b>	0.9999273789		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	6	56.1393864
<b>Longitude</b>	94	31	54.7438872
<b>Ellipsoid Height:</b>	298.965		
<b>Grid Northing (Meters)</b>	200,662.0556		
<b>Grid Easting (Meters)</b>	172,080.5204		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	165	18.69	61.3
MK # 2	0.70 METER PINE TREE	250	23.80	78.1
MK # 3	POWER POLE	25	27.96	91.7

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="SAL1"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NDS1"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="040038"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.</td> </tr> </table>	Comments	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.
Comments			
3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.			

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 7.32 KM. (4.55 MI.) TO THE STATION ON THE LEFT ON TOP OF A HIGH BANK NEAR A POWER TRANSMISSION LINE. 14.36 METERS EAST OF THE CENTER OF HWY-59 AND 1.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    6    56.1253320
<b>Longitude</b>	94    31    54.7398984
<b>Ellipsoid Height (M):</b>	299.675
<b>Geoid Height (M):</b>	-28.292

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040018	<b>Date Monumented</b> 9/3/1997	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> I-540	<b>Job Number:</b> 090180,012069,9985,012111
--------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,975.7130	
<b>Easting (M)</b>	203,783.6220	
<b>Elevation (M)*</b>	374.814	
<b>Northing (SFT)</b>	728,265.3184	
<b>Easting (SFT)</b>	668,580.0998	
<b>Elevation (SFT)*</b>	1,229.703	

  

<b>Convergence Angle</b>	-1	16	17.3720550
<b>Scale Factor</b>	1.000017049		
<b>Elevation Adjust. Factor</b>	0.9999411829		
<b>Combined Adjust. Factor</b>	0.9999582309		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	18	52.0780104
<b>Longitude</b>	94	11	6.2667348
<b>Ellipsoid Height:</b>	346.247		
<b>Grid Northing (Meters)</b>	221,976.1787		
<b>Grid Easting (Meters)</b>	203,783.5595		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH IN TOP OF GUARD RAIL	17	3.05	10.0
<b>MK # 2</b>	PUNCH IN TOP OF GUARD RAIL	148	6.89	22.6
<b>MK # 3</b>	"X" IN SOUTHEAST CORNER OF BRIDGE	270	11.33	37.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BENTPORT, BENTPORTAZ	Digital Levels were ran by crew S5101 in Dec. 09 from AHTD BM 920 in Job 012111. BM 920 was est. from NGS mark J 26. The crew hammered the pt. down 2 tenths to prevent mower disturbance. The previous elev. was 1229.8975.
<b>Ref Mon # 2</b> OKMU, CNWM	
<b>Ref Mon # 3</b> V 26	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040020	<b>Date Monumented</b> 7/6/1998	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 12	<b>Job Number:</b> 090057
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	222,147.3680	
<b>Easting (M)</b>	196,572.7940	
<b>Elevation (M)*</b>	377.292	
<b>Northing (SFT)</b>	728,828.4898	
<b>Easting (SFT)</b>	644,922.5750	
<b>Elevation (SFT)*</b>	1,237.832	

  

<b>Convergence Angle</b>	-1	19	5.6213976
<b>Scale Factor</b>	1.000017066		
<b>Elevation Adjust. Factor</b>	0.9999407941		
<b>Combined Adjust. Factor</b>	0.9999578591		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 12 ON THE SOUTH SIDE OF BENTONVILLE GO WEST ON STATE HIGHWAY 12 FOR 7.08 KM. (4.4 MI.) TO THE STATION ON LEFT. 10.39 METERS SOUTH OF THE CENTER OF HWY-12, 1.30 METERS NORTH OF A BARBWIRE FENCE AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040020 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	2	22.53	73.9
MK # 2	WOODEN CORNER POST	266	34.48	113.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="FLINT"/></p> <p>Ref Mon # 2 <input type="text" value="CASSPORT"/></p> <p>Ref Mon # 3 <input type="text" value="V 26"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040020A	<b>Date Monumented</b> 7/6/1998	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 12	<b>Job Number:</b> 090057
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	222,185.3740	
<b>Easting (M)</b>	196,137.7160	
<b>Elevation (M)*</b>	375.253	
<b>Northing (SFT)</b>	728,953.1812	
<b>Easting (SFT)</b>	643,495.1566	
<b>Elevation (SFT)*</b>	1,231.143	

  

<b>Convergence Angle</b>	-1	19	15.7878964
<b>Scale Factor</b>	1.000017122		
<b>Elevation Adjust. Factor</b>	0.9999411140		
<b>Combined Adjust. Factor</b>	0.9999582350		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	272	26.75	87.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FLINT	
<b>Ref Mon # 2</b> CASSPORT	
<b>Ref Mon # 3</b> V 26	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 18 53.2516140
<b>Longitude</b>	94 16 12.8733852
<b>Ellipsoid Height (M):</b>	347.218
<b>Geoid Height (M):</b>	-28.035

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 12 ON THE SOUTH SIDE OF BENTONVILLE GO WEST ON STATE HIGHWAY 12 FOR 7.48 KM. (4.65 MI.) TO THE STATION ON THE RIGHT. 10.65 METERS NORTH OF THE CENTER OF HWY-12, 0.85 METERS SOUTH OF A WITNESS POST SET NEAR A BARBWIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040020A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040022	<b>Date Monumented</b> 12/1/1998	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090024,090137
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 207,494.8180		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 169,737.9780		<b>Latitude</b> 36 10 35.7835368
<b>Elevation (M)*</b> 355.195		<b>Longitude</b> 94 33 35.4850596
<b>Northing (SFT)</b> 680,755.9154		<b>Ellipsoid Height (M):</b> 326.790
<b>Easting (SFT)</b> 556,882.0162		<b>Geoid Height (M):</b> -28.284
<b>Elevation (SFT)*</b> 1,165.336		

  

<b>Convergence Angle</b> -1 29 22.4827206	<b>Location Description</b>  TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 0.47 KM (0.29 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 10.0 METERS WEST OF THE CENTER OF A PAVED ENTRANCE TO AN ABANDON GAS STATION AND 0.50 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040022 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999989282	
<b>Elevation Adjust. Factor</b> 0.9999442614	
<b>Combined Adjust. Factor</b> 0.9999335440	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CMP	118	5.00	16.4
MK # 2	FIRE HYDRANT	270	18.55	60.9
MK # 3	GUY POLE	336	20.30	66.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 OLD MAIN	
Ref Mon # 2 FLINT	
Ref Mon # 3 V 26	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040022A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090137,090137
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,466.9200	
<b>Easting (M)</b>	169,330.5230	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	680,664.3867	
<b>Easting (SFT)</b>	555,545.2242	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	29	31.9505788
<b>Scale Factor</b>	0.999989219		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORRIGATED METAL PIPE	76	8.66	28.4
<b>MK # 2</b>	MAN HOLE COVER	85	10.15	33.3
<b>MK # 3</b>	LIGHT POLE	270	10.90	35.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOAM	
<b>Ref Mon # 2</b> ENES	
<b>Ref Mon # 3</b> SALLISAW	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 34.5347832
<b>Longitude</b>	94 33 51.7556772
<b>Ellipsoid Height (M):</b>	323.958
<b>Geoid Height (M):</b>	-28.290

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 0.04 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.75 METERS SOUTH OF THE SOUTH EDGE OF THE EAST BOUND LANES OF U.S. HIGHWAY 412, 2.36 METERS NORTH OF THE BACK OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040022A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040023	<b>Date Monumented</b> 4/12/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090064,090065,012153
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	232,395.9501	
<b>Easting (M)</b>	214,267.9240	
<b>Elevation (M)*</b>	408.524	
<b>Northing (SFT)</b>	762,452.3796	
<b>Easting (SFT)</b>	702,977.3473	
<b>Elevation (SFT)*</b>	1,340.300	

  

<b>Convergence Angle</b>	-1	12	17.9779719
<b>Scale Factor</b>	1.000039802		
<b>Elevation Adjust. Factor</b>	0.9999358934		
<b>Combined Adjust. Factor</b>	0.9999756928		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF RODGERS GO NORTHEAST ON U.S. HIGHWAY 62 FOR 7.56 KM (4.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.75 METERS EAST OF THE CENTER OF ANDY JACK ROAD, 14.49 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040023 1999" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NGS BENCH MARK P 309	233	37.01	121.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    CASSPORT</p> <p><b>Ref Mon # 2</b>    V 26</p> <p><b>Ref Mon # 3</b>    FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 &amp; Q309.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040023A	<b>Date Monumented</b> 4/12/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090064,090065,012153
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	231,817.8521	
<b>Easting (M)</b>	214,187.4430	
<b>Elevation (M)*</b>	415.279	
<b>Northing (SFT)</b>	760,555.7364	
<b>Easting (SFT)</b>	702,713.3026	
<b>Elevation (SFT)*</b>	1,362.461	

  

<b>Convergence Angle</b>	-1	12	19.5731147
<b>Scale Factor</b>	1.000038490		
<b>Elevation Adjust. Factor</b>	0.9999348335		
<b>Combined Adjust. Factor</b>	0.9999733210		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	56	1.30	4.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;"><b>Ref Mon # 1</b></td> <td>CASSPORT</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>V 26</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>FLINT</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	CASSPORT	<b>Ref Mon # 2</b>	V 26	<b>Ref Mon # 3</b>	FLINT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 &amp; Q309.</td> </tr> </table>	Comments	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	CASSPORT										
<b>Ref Mon # 2</b>	V 26										
<b>Ref Mon # 3</b>	FLINT										
Comments											
Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.											

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 7.00 KM (4.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.81 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62 AND 1.13 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040023A 1999" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	36 24 18.5777820
<b>Longitude</b>	94 4 17.6037420
<b>Ellipsoid Height (M):</b>	387.297
<b>Geoid Height (M):</b>	-28.110

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040024A	<b>Date Monumented</b> 9/28/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	234,847.3041		
<b>Easting (M)</b>	216,713.1390		
<b>Elevation (M)*</b>	423.382		
<b>Northing (SFT)</b>	770,494.8635		
<b>Easting (SFT)</b>	710,999.6902		
<b>Elevation (SFT)*</b>	1,389.047		

  

<b>Convergence Angle</b>	-1	11	22.0722143
<b>Scale Factor</b>	1.000045559		
<b>Elevation Adjust. Factor</b>	0.9999335619		
<b>Combined Adjust. Factor</b>	0.9999791179		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W SIGN	227	6.95	22.8
<b>MK # 2</b>	PG	99	29.51	96.8
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> CONWAY CORS ARP <b>Ref Mon # 2</b> SALLISAW 1 CORS ARP <b>Ref Mon # 3</b> NEODESHA CORS ARP	<b>Comments</b> Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.
---	--

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 72, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF AVOCA, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.67 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040024A 1999" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 484.310 METERS.	

  

<b>AZ Mark Station</b>	040024
<b>Geodetic Azimuth</b>	48 16 29.098081
<b>Grid Azimuth</b>	49 27 51.257341

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040025	<b>Date Monumented</b> 9/28/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 236,043.9541		<b>Latitude</b> 36 26 40.5695976
<b>Easting (M)</b> 221,545.3380		<b>Longitude</b> 93 59 25.8044388
<b>Elevation (M)*</b> 478.305		<b>Ellipsoid Height (M):</b> 450.145
		<b>Geoid Height (M):</b> -28.136

  

<b>Northing (SFT)</b> 774,420.8727		<b>Location Description</b>
<b>Easting (SFT)</b> 726,853.3298		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.93 KM (1.20 MI) TO THE GARFIELD POST OFFICE AND THE STATION ON THE RIGHT. THE STATION IS 23.06 METERS EAST OF THE CENTER OF ALVIN SEAMSTER ROAD, 18.94 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040025 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM BENCH MARK V 309. THE SHOT DISTANCE IS 583.531 METERS.</p>
<b>Elevation (SFT)*</b> 1,569.239		

  

<b>Convergence Angle</b> -1 9 29.7753546	
<b>Scale Factor</b> 1.000048601	
<b>Elevation Adjust. Factor</b> 0.9999249440	
<b>Combined Adjust. Factor</b> 0.9999735413	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	119	9.94	32.6
<b>MK # 2</b>	FLAG POLE	58	21.98	72.1
<b>MK # 3</b>	NORTHEAST END OF CMP	265	17.30	56.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CONWAY CORS ARP	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309, W309, X309, Y309, U309, T309, S309, R309 & Q309.
<b>Ref Mon # 2</b> SALLISAW 1 CORS ARP	
<b>Ref Mon # 3</b> NEODESHA CORS ARP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040025A	<b>Date Monumented</b> 9/28/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	236,304.2381	
<b>Easting (M)</b>	221,023.0840	
<b>Elevation (M)*</b>	462.897	
<b>Northing (SFT)</b>	775,274.8212	
<b>Easting (SFT)</b>	725,139.9014	
<b>Elevation (SFT)*</b>	1,518.689	

  

<b>Convergence Angle</b>	-1	9	42.0983079
<b>Scale Factor</b>	1.000049192		
<b>Elevation Adjust. Factor</b>	0.9999273616		
<b>Combined Adjust. Factor</b>	0.9999765500		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	183	0.58	1.9
<b>MK # 2</b>	TELEPHONE JUNCTION MARK	272	33.15	108.8
<b>MK # 3</b>	WEST GATE POST	230	8.90	29.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CONWAY CORS ARP	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.
<b>Ref Mon # 2</b> SALLISAW 1 CORS ARP	
<b>Ref Mon # 3</b> NEODESHA CORS ARP	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 26 48.6686076
<b>Longitude</b>	93 59 46.9815684
<b>Ellipsoid Height (M):</b>	434.760
<b>Geoid Height (M):</b>	-28.137

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 2.49 KM (1.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.27 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 4.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE AND 0.76 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040025A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.531 METERS.</p>

<b>AZ Mark Station</b>	040025
<b>Geodetic Azimuth</b>	115 19 45.63189
<b>Grid Azimuth</b>	116 29 27.85903

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040026A	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 71	<b>Job Number:</b> 009969,090298
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	233,392.5831	
<b>Easting (M)</b>	200,728.0564	
<b>Elevation (M)*</b>	317.176	0.0044
<b>Northing (SFT)</b>	765,722.1664	
<b>Easting (SFT)</b>	658,555.2984	
<b>Elevation (SFT)*</b>	1,040.603	

  

<b>Convergence Angle</b>	-1	17	34.6380534
<b>Scale Factor</b>	1.000041400		
<b>Elevation Adjust. Factor</b>	0.9999502272		
<b>Combined Adjust. Factor</b>	0.9999916251		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71B AND STATE HIGHWAY 340, LOCATED IN BELLA VISTA, GO SOUTH ON U.S. HIGHWAY 71 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS EAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 71B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 040026A SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 598.961 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					040026
MK # 2	NONE					351 55 45.72116
MK # 3	NONE					353 13 20.33933

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> V 26 <b>Ref Mon # 2</b> CASSPORT <b>Ref Mon # 3</b> FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040027	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 39	<b>Job Number:</b> 009969.090298
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	233,428.7775	
<b>Easting (M)</b>	196,943.7890	
<b>Elevation (M)*</b>	404.819	
<b>Northing (SFT)</b>	765,840.9142	
<b>Easting (SFT)</b>	646,139.7477	
<b>Elevation (SFT)*</b>	1,328.145	

  

<b>Convergence Angle</b>	-1	19	3.0203790
<b>Scale Factor</b>	1.000041285		
<b>Elevation Adjust. Factor</b>	0.9999364747		
<b>Combined Adjust. Factor</b>	0.9999777570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.71 KM (3.55 MI) TO THE JUNCTION OF SHORT ROAD (OLD COUNTY ROAD 452) ON THE LEFT GO LEFT, EAST ON SHORT ROAD FOR 3.07 KM (1.91 MI) TO THE JUNCTION OF PUNKIN HOLLOW ROAD (OLD COUNTY ROAD 39) ON THE LEFT, GO LEFT NORTH ON PUNKIN HOLLOW ROAD FOR 0.94 KM (0.59 MI) TO THE MILLER COMMUNITY CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH-SOUTHEAST OF THE CENTER OF MILLER CHURCH ROAD, 9.15 METERS NORTH-NORTHEAST OF THE CENTER OF PUNKIN HOLLOW ROAD AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040027 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	283	14.40	47.2
MK # 2	TELEPHONE JUNCTION BOX	253	18.80	61.7
MK # 3	BASE OF AN OLD HAND PUMP	85	6.15	20.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> V 26 <b>Ref Mon # 2</b> CASSPORT <b>Ref Mon # 3</b> FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040028	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 009969
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	232,527.7112	
<b>Easting (M)</b>	195,673.6084	
<b>Elevation (M)*</b>	414.033	
<b>Northing (SFT)</b>	762,884.6658	
<b>Easting (SFT)</b>	641,972.4969	
<b>Elevation (SFT)*</b>	1,358.373	

  

<b>Convergence Angle</b>	-1	19	32.1920444
<b>Scale Factor</b>	1.000039169		
<b>Elevation Adjust. Factor</b>	0.9999350290		
<b>Combined Adjust. Factor</b>	0.9999741954		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.23 KM (3.25 MI) TO THE JUNCTION OF LITTLE ROAD (OLD COUNTY ROAD 457) ON THE LEFT, GO LEFT NORTHEAST ON LITTLE ROAD FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF MILLER CHURCH ROAD (OLD COUNTY ROAD 49) ON THE RIGHT, GO RIGHT NORTHEAST ON MILLER CHURCH ROAD FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF THE CENTER OF MILLER CHURCH ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040028 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					NONE
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> V 26 <b>Ref Mon # 2</b> CASSPORT <b>Ref Mon # 3</b> FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040029	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 009969,090298
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	233,762.3220	
<b>Easting (M)</b>	192,569.4878	
<b>Elevation (M)*</b>	414.549	0.0008
<b>Northing (SFT)</b>	766,935.2181	
<b>Easting (SFT)</b>	631,788.3946	
<b>Elevation (SFT)*</b>	1,360.065	

  

<b>Convergence Angle</b>	-1	20	45.3418224
<b>Scale Factor</b>	1.000041816		
<b>Elevation Adjust. Factor</b>	0.9999349480		
<b>Combined Adjust. Factor</b>	0.9999767613		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 1.90 KM (1.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040029 2001" SET ON TOP OF AN IRON 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.535 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	257	9.90	32.5
MK # 2	WOODEN GATE POST	90	23.80	78.1
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="V 26"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="CASSPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="FLINT"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040029A	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 009969,090298
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	233,740.5451	
<b>Easting (M)</b>	193,080.5582	
<b>Elevation (M)*</b>	408.623	
<b>Northing (SFT)</b>	766,863.7717	
<b>Easting (SFT)</b>	633,465.1314	
<b>Elevation (SFT)*</b>	1,340.623	

  

<b>Convergence Angle</b>	-1	20	33.3962540
<b>Scale Factor</b>	1.000041793		
<b>Elevation Adjust. Factor</b>	0.9999358779		
<b>Combined Adjust. Factor</b>	0.9999776682		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CMP	311	8.50	27.9
<b>MK # 2</b>	WOODEN CORNER POST	203	1.80	5.9
<b>MK # 3</b>	WOODEN BRACE POST	252	2.90	9.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="V 26"/>	
<b>Ref Mon # 2</b> <input type="text" value="CASSPORT"/>	
<b>Ref Mon # 3</b> <input type="text" value="FLINT"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 25 5.7119988
<b>Longitude</b>	94 18 26.2441944
<b>Ellipsoid Height (M):</b>	380.691
<b>Geoid Height (M):</b>	-28.055

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 2.41 KM (1.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 28.00 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 10.85 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72 AND 1.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040029A 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.535 METERS.</p>

<b>AZ Mark Station</b>	040029
<b>Geodetic Azimuth</b>	271 05 50.46912
<b>Grid Azimuth</b>	272 26 23.74450

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040030	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 009969
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	235,198.9411		
<b>Easting (M)</b>	186,970.3177		
<b>Elevation (M)*</b>	402.477		
<b>Northing (SFT)</b>	771,648.5259		
<b>Easting (SFT)</b>	613,418.4507		
<b>Elevation (SFT)*</b>	1,320.461		

  

<b>Convergence Angle</b>	-1	22	56.8915588
<b>Scale Factor</b>	1.000044823		
<b>Elevation Adjust. Factor</b>	0.9999368422		
<b>Combined Adjust. Factor</b>	0.9999816623		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST	261	4.95	16.2
<b>MK # 2</b>	MOST EASTERLY BRACE POST	31	1.96	6.4
<b>MK # 3</b>	NORTHEAST END CMP	222	5.90	19.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> V 26	
<b>Ref Mon # 2</b> CASSPORT	
<b>Ref Mon # 3</b> FLINT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 25 48.2966220
<b>Longitude</b>	94 22 32.8424412
<b>Ellipsoid Height (M):</b>	374.565
<b>Geoid Height (M):</b>	-28.072

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 4.50 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 72, 9.85 METERS NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.88 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040030 2001" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 502.558 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040031	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 21	<b>Job Number:</b> 009969
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	239,159.1527	
<b>Easting (M)</b>	187,316.9709	
<b>Elevation (M)*</b>	394.183	
<b>Northing (SFT)</b>	784,641.3201	
<b>Easting (SFT)</b>	614,555.7620	
<b>Elevation (SFT)*</b>	1,293.249	

  

<b>Convergence Angle</b>	-1	22	51.0253578
<b>Scale Factor</b>	1.000054241		
<b>Elevation Adjust. Factor</b>	0.9999381436		
<b>Combined Adjust. Factor</b>	0.9999923813		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472) GO LEFT, WEST ON HIGHLAND BOULEVARD FOR 4.59 KM (2.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS WEST OF THE CENTER OF HIGHLAND BOULEVARD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040031 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 554.155 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="V 26"/>	
Ref Mon # 2 <input type="text" value="CASSPORT"/>	
Ref Mon # 3 <input type="text" value="FLINT"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040031A	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 21	<b>Job Number:</b> 009969
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	238,605.9950	
<b>Easting (M)</b>	187,350.3032	
<b>Elevation (M)*</b>	388.853	
<b>Northing (SFT)</b>	782,826.5019	
<b>Easting (SFT)</b>	614,665.1197	
<b>Elevation (SFT)*</b>	1,275.761	

  

<b>Convergence Angle</b>	-1	22	49.9351251
<b>Scale Factor</b>	1.000052907		
<b>Elevation Adjust. Factor</b>	0.9999389801		
<b>Combined Adjust. Factor</b>	0.9999918838		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472), GO LEFT WEST ON HIGHLAND BOULEVARD FOR 4.34 KM (2.70 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT. GO LEFT, WEST ON THE PAVED ROAD FOR 0.04 KM (0.03 MI) TO A PAVED ROAD ON THE LEFT, GO LEFT SOUTH ON THE PAVED ROAD FOR 0.35 KM (0.22 MI) TO THE STATION SET IN THE MIDDLE OF THE ROAD. THE STATION IS 4.08 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "040031A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND 0.02 METERS BELOW THE PAVEMENT. THE SHOT DISTANCE IS 554.155 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	153	12.00	39.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> V 26 <b>Ref Mon # 2</b> CASSPORT <b>Ref Mon # 3</b> FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040032	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 009969
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	242,561.4875	
<b>Easting (M)</b>	187,603.0654	
<b>Elevation (M)*</b>	380.047	
<b>Northing (SFT)</b>	795,803.8136	
<b>Easting (SFT)</b>	615,494.3904	
<b>Elevation (SFT)*</b>	1,246.871	

  

<b>Convergence Angle</b>	-1	22	46.2553766
<b>Scale Factor</b>	1.000062644		
<b>Elevation Adjust. Factor</b>	0.9999403618		
<b>Combined Adjust. Factor</b>	1.0000030021		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURGH ROAD FOR 0.72 KM (0.45 MI) TO THE JUNCTION OF A PIPE LINE AND THE STATION ON THE LEFT. THE STATION IS 6.15 METERS SOUTH OF THE CENTER OF EDINBURGH ROAD, 3.00 METERS EAST OF THE CENTER OF A FOUR WHEELER TRAIL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040032 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					NONE
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040034	<b>Date Monumented</b> 11/4/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 264	<b>Job Number:</b> 090147,090268
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,926.0170	
<b>Easting (M)</b>	172,649.0610	
<b>Elevation (M)*</b>	349.657	
<b>Northing (SFT)</b>	685,451.4408	
<b>Easting (SFT)</b>	566,432.7943	
<b>Elevation (SFT)*</b>	1,147.165	

  

<b>Convergence Angle</b>	-1	28	15.5731453
<b>Scale Factor</b>	0.999991757		
<b>Elevation Adjust. Factor</b>	0.9999451305		
<b>Combined Adjust. Factor</b>	0.9999368879		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	163	12.90	42.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 SILOAM	Digital Levels ran by crew S5110 from 2nd order NGS mark "K 31" in November 2009.
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 11 24.6413076
<b>Longitude</b>	94 31 40.5002244
<b>Ellipsoid Height (M):</b>	321.416
<b>Geoid Height (M):</b>	-28.240

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264. LOCATED IN THE NORTHEAST CORNER OF SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 264 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 264 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040034 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH K 31 PID # GG0210, BY CREW S5101.</p>

<b>AZ Mark Station</b>	SILOAM
<b>Geodetic Azimuth</b>	26 34 13
<b>Grid Azimuth</b>	28 02 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040035	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090024
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,513.4960	
<b>Easting (M)</b>	179,129.2310	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	680,817.1948	
<b>Easting (SFT)</b>	587,693.1520	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	43.8769187
<b>Scale Factor</b>	0.999989702		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 2.37 MILES TO THE STATION ON THE LEFT. THE STATION IS 22.50 METERS WEST OF THE CENTER LINE OF THE CROSSOVER BETWEEN DIVIDED 412 LANES, 12.65 METERS NORTH OF THE CENTERLINE OF 412 EAST BOUND LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040035 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	DROP INLET	298	17.00	55.8	350035A
MK # 2	RCP UNDER CROSSOVER LANE BETWEEN 412 LANES	98	10.80	35.4	116 22 01
MK # 3					117 47 45

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SILOAM <b>Ref Mon # 2</b> ENES <b>Ref Mon # 3</b> SALLISAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040035A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090024
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,177.6530	
<b>Easting (M)</b>	179,766.3270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	679,715.3499	
<b>Easting (SFT)</b>	589,783.3578	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	28.8512195
<b>Scale Factor</b>	0.999989181		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 2.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 28.00 METERS EAST OF THE CENTER OF CROSSOVER LANE BETWEEN DIVIDED 412, 9.60 METERS NORTH OFF CENTER OF EAST BOUND 412 LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 040035A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SILOAM</p> <p>Ref Mon # 2    ENES</p> <p>Ref Mon # 3    SALLISAW</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040036	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090148
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,135.6800	
<b>Easting (M)</b>	175,664.7940	
<b>Elevation (M)*</b>	365.868	
<b>Northing (SFT)</b>	695,981.8101	
<b>Easting (SFT)</b>	576,326.9116	
<b>Elevation (SFT)*</b>	1,200.351	

  

<b>Convergence Angle</b>	-1	27	7.2536505
<b>Scale Factor</b>	0.999997354		
<b>Elevation Adjust. Factor</b>	0.9999425867		
<b>Combined Adjust. Factor</b>	0.9999399409		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 2.69 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 59 AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040036 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    SILOAM Ref Mon # 2    ENES Ref Mon # 3    SALLISAW	<b>Comments</b> ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040036A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090148
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,491.1830	
<b>Easting (M)</b>	175,633.4550	
<b>Elevation (M)*</b>	359.794	
<b>Northing (SFT)</b>	693,867.3229	
<b>Easting (SFT)</b>	576,224.0936	
<b>Elevation (SFT)*</b>	1,180.424	

  

<b>Convergence Angle</b>	-1	27	7.6030483
<b>Scale Factor</b>	0.999996234		
<b>Elevation Adjust. Factor</b>	0.9999435398		
<b>Combined Adjust. Factor</b>	0.9999397740		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF CORRIGATED METAL PIPE	223	3.10	10.2
<b>MK # 2</b>	NORTHERN MOST GATE POST	163	3.10	10.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOAM	ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101
<b>Ref Mon # 2</b> ENES	
<b>Ref Mon # 3</b> SALLISAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040037	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59B	<b>Job Number:</b> 090148
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,769.7710	
<b>Easting (M)</b>	176,709.8520	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	711,185.4904	
<b>Easting (SFT)</b>	579,755.5728	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	26	45.6375903
<b>Scale Factor</b>	1.000005750		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.90 MILES TO THE JUNCTION OF STATE HIGHWAY 59 AND 59B ON THE SOUTH EDGE OF GENTRY. TURN LEFT (NORTH) ON STATE HIGHWAY 59B AND CONTINUE ON FOR 0.16 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 59B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MAN HOLE COVER	340	3.33	10.9
<b>MK # 2</b>	FIRE HYDRANTANT	262	38.40	126.0
<b>MK # 3</b>	WATER VALVE	163	4.73	15.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    SILOAM</p> <p><b>Ref Mon # 2</b>    ENES</p> <p><b>Ref Mon # 3</b>    SALLISAW</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040037A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090148
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,346.0070	
<b>Easting (M)</b>	176,671.1800	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	709,795.1913	
<b>Easting (SFT)</b>	579,628.6964	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	26	46.2894700
<b>Scale Factor</b>	1.000004962		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MAN HOLE COVER	348	7.65	25.1
<b>MK # 2</b>	COMBINATION POLE	354	17.25	56.6
<b>MK # 3</b>	POWER POLE	249	16.10	52.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="SILOAM"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ENES"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="SALLISAW"/>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 15 28.6135272
<b>Longitude</b>	94 29 7.0652544
<b>Ellipsoid Height (M):</b>	342.496
<b>Geoid Height (M):</b>	-28.144

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS SOUTH OF A GRAVEL DRIVE, 9.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 59, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	040037
<b>Geodetic Azimuth</b>	3 46 05
<b>Grid Azimuth</b>	5 12 52

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040038	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090196,090024
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	203,497.4079	
<b>Easting (M)</b>	172,571.3980	
<b>Elevation (M)*</b>	354.250	
<b>Northing (SFT)</b>	667,641.0791	
<b>Easting (SFT)</b>	566,177.9949	
<b>Elevation (SFT)*</b>	1,162.234	

  

<b>Convergence Angle</b>	-1	28	14.1365795
<b>Scale Factor</b>	0.999983097		
<b>Elevation Adjust. Factor</b>	0.9999444098		
<b>Combined Adjust. Factor</b>	0.9999275077		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST	305	2.05	6.7
<b>MK # 2</b>	WOOD FENCE POST	260	2.65	8.7
<b>MK # 3</b>	WOOD FENCE POST	296	4.00	13.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="SAL1"/>	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.
<b>Ref Mon # 2</b> <input type="text" value="NDS1"/>	
<b>Ref Mon # 3</b> <input type="text" value="040038"/>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    8    28.5092628
<b>Longitude</b>	94    31    38.0314704
<b>Ellipsoid Height (M):</b>	325.942
<b>Geoid Height (M):</b>	-28.272

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 SOUTH LOCATED IN SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 2.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 1.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040038 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040038A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090196,090024
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	203,124.3629	
<b>Easting (M)</b>	172,149.6240	
<b>Elevation (M)*</b>	353.630	
<b>Northing (SFT)</b>	666,417.1806	
<b>Easting (SFT)</b>	564,794.2247	
<b>Elevation (SFT)*</b>	1,160.199	

  

<b>Convergence Angle</b>	-1	28	23.7271721
<b>Scale Factor</b>	0.999982512		
<b>Elevation Adjust. Factor</b>	0.9999445071		
<b>Combined Adjust. Factor</b>	0.9999270201		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	45	9.70	31.8
MK # 2	TELEPHONE JUNCTION BAX	24	10.80	35.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="SAL1"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NDS1"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="040038"/>	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040039	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 43	<b>Job Number:</b> 090147,090268
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,299.0439	
<b>Easting (M)</b>	170,169.9070	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	693,236.9465	
<b>Easting (SFT)</b>	558,299.1032	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	29	14.7276681
<b>Scale Factor</b>	0.999995661		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	040039A
<b>Geodetic Azimuth</b>	156 18 20
<b>Grid Azimuth</b>	157 47 35

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040039A	<b>Date Monumented</b> 11/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 43	<b>Job Number:</b> 090147,090268
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,827.7640	
<b>Easting (M)</b>	170,362.3000	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	691,690.7557	
<b>Easting (SFT)</b>	558,930.3126	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	29	9.9624526
<b>Scale Factor</b>	0.999994862		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	356	42.50	139.4
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	040039
<b>Geodetic Azimuth</b>	336 18 25
<b>Grid Azimuth</b>	337 47 35

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040041	<b>Date Monumented</b> 12/4/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090014,090151
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	242,041.8932	
<b>Easting (M)</b>	179,255.6400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	794,099.1113	
<b>Easting (SFT)</b>	588,107.8789	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	26	1.0506490
<b>Scale Factor</b>	1.000060834		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL FENCE POST	226	18.70	61.4
<b>MK # 2</b>	COMBINATION POLE	132	20.00	65.6
<b>MK # 3</b>	NORTH END CORRIGATED METAL PIPE	142	29.70	97.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CASSPORT	
<b>Ref Mon # 2</b> V 26	
<b>Ref Mon # 3</b> SILOAM	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 29 24.0667080
<b>Longitude</b>	94 27 49.3218468
<b>Ellipsoid Height (M):</b>	264.991
<b>Geoid Height (M):</b>	-28.282

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.9 METERS EAST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.</p>

<b>AZ Mark Station</b>	040041A
<b>Geodetic Azimuth</b>	141 30 18
<b>Grid Azimuth</b>	142 56 19

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040041A	<b>Date Monumented</b> 12/4/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090014,090151
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 241,654.9661		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 179,547.8590		<b>Latitude</b> 36 29 11.7557988
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 27 37.1972448
<b>Northing (SFT)</b> 792,829.6679		<b>Ellipsoid Height (M):</b> 267.024
<b>Easting (SFT)</b> 589,066.6007		<b>Geoid Height (M):</b> -28.269
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 25 53.9953536	<b>Scale Factor</b> 1.000059891	<b>Location Description</b>  TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	300	22.90	75.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> 
Ref Mon # 1 CASSPORT	
Ref Mon # 2 V 26	
Ref Mon # 3 SILOAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040042	<b>Date Monumented</b> 12/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 340	<b>Job Number:</b> 090156, 0109D25,09X007
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	239,994.6518    0.0020
<b>Easting (M)</b>	197,444.5524    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	787,382.4534	
<b>Easting (SFT)</b>	647,782.6690	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	54.8475217
<b>Scale Factor</b>	1.000056856		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	28	31.8265752
<b>Longitude</b>	94	15	36.8878248
<b>Ellipsoid Height:</b>	306.281		
<b>Grid Northing (Meters)</b>	239,994.6581		
<b>Grid Easting (Meters)</b>	197,444.5350		

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 340 IN BELLA VISTA, GO WEST ON STATE HIGHWAY 340 FOR 0.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 340 AND 0.40 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040042 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 18" CULVERT ACROSS ROYCE CREEK	334	18.20	59.7
MK # 2	POWER POLE	323	27.50	90.2
MK # 3				

  

<b>AZ Mark Station</b>	040042A
<b>Geodetic Azimuth</b>	72 39 09
<b>Grid Azimuth</b>	73 58 04

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY, CTA1 (CASSPORT)	CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.
Ref Mon # 2    ARHR (V 26)	
Ref Mon # 3    SAL5 (SILOAM)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040042A	<b>Date Monumented</b> 12/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 340	<b>Job Number:</b> 090156, 0109D25,09X007
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	240,119.1569 0.0020
<b>Easting (M)</b>	197,877.8047 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	787,790.9339	
<b>Easting (SFT)</b>	649,204.0976	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	44.7902058
<b>Scale Factor</b>	1.000057186		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	28	36.1863840
<b>Longitude</b>	94	15	19.6043832
<b>Ellipsoid Height:</b>	280.707		
<b>Grid Northing (Meters)</b>	240,119.1532		
<b>Grid Easting (Meters)</b>	197,877.7830		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 340 IN BELLA VISTA, GO WEST ON STATE HIGHWAY 340 FOR 0.40 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 340 AND 0.25 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040042A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	60	15.90	52.2
<b>MK # 2</b>	GATE POST	253	10.30	33.8
<b>MK # 3</b>	CORRIGATED METAL PIPE	76	31.20	102.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, CTA1 (CASSPORT)	CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.
<b>Ref Mon # 2</b> ARHR (V 26)	
<b>Ref Mon # 3</b> SAL5 (SILOAM)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040043	<b>Date Monumented</b> 9/11/2003	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090174
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,928.3551	
<b>Easting (M)</b>	197,400.0510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	744,514.1117	
<b>Easting (SFT)</b>	647,636.6673	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	48.8862068
<b>Scale Factor</b>	1.000026976		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	149	5.50	18.0
<b>MK # 2</b>	MAIL BOX#1619	300	14.80	48.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BENTPORT,BENTPORTAZ	
<b>Ref Mon # 2</b> V26	
<b>Ref Mon # 3</b> OKMU	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 21 28.0236276
<b>Longitude</b>	94 15 26.6425380
<b>Ellipsoid Height (M):</b>	357.121
<b>Geoid Height (M):</b>	-28.040

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.4 MILES TO THE STATION ON THE LEFT, 17.6 METERS EAST OF A DRIVEWAY, SOUTH 12.2 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040043A	<b>Date Monumented</b> 9/11/2003	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090174
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,980.4181	
<b>Easting (M)</b>	196,699.3330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	744,684.9217	
<b>Easting (SFT)</b>	645,337.7284	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	5.2638613
<b>Scale Factor</b>	1.000027052		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.8 MILES TO THE STATION ON THE RIGHT, 6.6 METERS WEST OF A TURN IN, NORTH 6.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 6.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	347	6.90	22.6
MK # 2	FIRE HYDRANT	289	16.20	53.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BENTPORT, BENTPORTAZ</p> <p>Ref Mon # 2: V26</p> <p>Ref Mon # 3: OKMU</p>	<p style="text-align: center;"><b>Comments</b></p> <p>MARK WAS DESTROYED DURING WIDENING JOB 090174</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040044	<b>Date Monumented</b> 9/24/2003	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 090178,090236
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 229,436.9701		<b>Latitude</b> 36 22 54.8190228
<b>Easting (M)</b> 204,840.8950		<b>Longitude</b> 94 10 30.4985568
<b>Elevation (M)*</b> 399.332		<b>Ellipsoid Height (M):</b> 371.243
		<b>Geoid Height (M):</b> -28.077

  

<b>Northing (SFT)</b> 752,744.4594		<b>Location Description</b>
<b>Easting (SFT)</b> 672,048.8363		TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY I-540 AND HIGHWAY 72, EXIT 88, EAST OF BENTONVILLE, GO TO THE NORTH EAST CORNER OF THE OVERPASS BRIDGE TO THE STATION MARK, NORTH 8.50 METERS OF THE CENTERLINE OF HIGHWAY 72 AND NORTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040044 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Elevation (SFT)*</b> 1,310.143		
<b>Convergence Angle</b> -1 15 56.5602823		
<b>Scale Factor</b> 1.000032749		
<b>Elevation Adjust. Factor</b> 0.9999373356		
<b>Combined Adjust. Factor</b> 0.9999700826		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NE CORNER OF BRIDGE END	164	2.90	9.5
<b>MK # 2</b>	3rd GUARD RAIL POST GOING EAST FROM BRIDGE	73	3.30	10.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BENTPORT, BENTPORT AZ	3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.
<b>Ref Mon # 2</b> V 26	
<b>Ref Mon # 3</b> OKMU, CNWM CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040044A	<b>Date Monumented</b> 9/24/2003	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> I-540	<b>Job Number:</b> 090178,090236
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,910.5630	
<b>Easting (M)</b>	204,242.8270	
<b>Elevation (M)*</b>	387.839	
<b>Northing (SFT)</b>	754,298.2388	
<b>Easting (SFT)</b>	670,086.6749	
<b>Elevation (SFT)*</b>	1,272.433	

  

<b>Convergence Angle</b>	-1	16	10.7643551
<b>Scale Factor</b>	1.000033760		
<b>Elevation Adjust. Factor</b>	0.9999391392		
<b>Combined Adjust. Factor</b>	0.9999728971		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I-540 AND HIGHWAY 72, EXIT 88, EAST OF BENTONVILLE, GO NORTH ON I-540 0.45 MILES TO THE STATION ON THE LEFT, EAST 6.1 METERS OF THE CENTERLINE OF THE SERVICE ROAD, 12.50 METERS WEST OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE OF I-540 AND EAST 0.50 METES OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040044A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    BENTPORT, BENTPORT AZ Ref Mon # 2    V 26 Ref Mon # 3    OKMU, CNWM CORS	<b>Comments</b> 3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040046	<b>Date Monumented</b> 10/6/2003	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> I-540	<b>Job Number:</b> 090180,012069,012111
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,404.0410	
<b>Easting (M)</b>	203,716.2740	
<b>Elevation (M)*</b>	385.353	
<b>Northing (SFT)</b>	726,389.7578	
<b>Easting (SFT)</b>	668,359.1423	
<b>Elevation (SFT)*</b>	1,264.280	

  

<b>Convergence Angle</b>	-1	16	18.6466606
<b>Scale Factor</b>	1.000015904		
<b>Elevation Adjust. Factor</b>	0.9999395292		
<b>Combined Adjust. Factor</b>	0.9999554322		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY I-540 AND ISTATE HIGHWAY 94 OVERPASS, LOCATED ABOUT 3.22 KM (2.00 MI) WEST OF ROGERS GO SOUTH ON U.S. HIGHWAY I-540 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 25.44 METERS WEST OF THE CENTER OF U.S. HIGHWAY I-540 SOUTH BOUND LANE AND 2.40 METERS EAST OF A WITNESS POST SET IN A WEB WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040046 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL POLE WITH A SIREN ON TOP	342	32.50	106.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BENTPORT, BENTPORTAZ</p> <p><b>Ref Mon # 2</b>    OKMU, CNWM</p> <p><b>Ref Mon # 3</b>    V 26</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 - Wire Elevations ran from K 309 in Job # 090180 and est. ELEV 1264.4145. 3-Wire Levels ran in Dec 2007 by crew S5101 from NGS marks Q 310, J 27, K 310, A 27, L 309 and came up with an elevation of 1264.2797 feet.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040048	<b>Date Monumented</b> 9/8/2000	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 215	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	212,067.8600		
<b>Easting (M)</b>	194,256.6060		
<b>Elevation (M)*</b>	325.776		
<b>Northing (SFT)</b>	695,759.3040		
<b>Easting (SFT)</b>	637,323.5482		
<b>Elevation (SFT)*</b>	1,068.815		

  

<b>Convergence Angle</b>	-1	19	54.1705888
<b>Scale Factor</b>	0.999998025		
<b>Elevation Adjust. Factor</b>	0.9999488778		
<b>Combined Adjust. Factor</b>	0.9999469029		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER FOR GATE	27	25.30	83.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AGRONOMY Ref Mon # 2    V 26 Ref Mon # 3    SAL1	<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
---	---

  

Location Description			
TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY LINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON STATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND GO WEST ON THE PAVED ROAD 1.6 MILES TO A "T" JUNCTION AND GO RIGHT ON SNAVLEY ROAD 1.8 MILES TO STATION ON THE LEFT, WEST OF THE CENTERLINE OF THE ROAD 5.5 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040048 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

<b>AZ Mark Station</b>	040048A
<b>Geodetic Azimuth</b>	3 36 07
<b>Grid Azimuth</b>	4 56 01

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040048A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 215	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,489.3800	
<b>Easting (M)</b>	194,292.9930	
<b>Elevation (M)*</b>	331.810	
<b>Northing (SFT)</b>	697,142.2409	
<b>Easting (SFT)</b>	637,442.9279	
<b>Elevation (SFT)*</b>	1,088.614	

  

<b>Convergence Angle</b>	-1	19	53.5512398
<b>Scale Factor</b>	0.999998768		
<b>Elevation Adjust. Factor</b>	0.9999479309		
<b>Combined Adjust. Factor</b>	0.9999466990		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	28	2.10	6.9
MK # 2	TELEPHONE RISER	11	3.20	10.5
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    36    13    37.3864728

**Longitude**    94    17    17.7701028

**Ellipsoid Height (M):**    303.782   

**Geoid Height (M):**    -28.051

  

**Location Description**

TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY LINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON STATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND GO WEST ON THE PAVED ROAD 1.6 MILES TO A "T" JUNCTION AND GO RIGHT ON SNAVLEY ROAD 2.1 MILES TO STATION ON THE RIGHT, EAST OF THE CENTERLINE OF THE ROAD 6.2 METERS AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040048A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040049 (p.1)	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 001966,090347,090402
--------------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	214,825.0103 0.0020
<b>Easting (M)</b>	199,187.4234 0.0020
<b>Elevation (M)*</b>	346.880
<b>Northing (SFT)</b>	704,805.0546
<b>Easting (SFT)</b>	653,500.7383
<b>Elevation (SFT)*</b>	1,138.055

  

<b>Convergence Angle</b>	-1	18	0.7717738
<b>Scale Factor</b>	1.000003160		
<b>Elevation Adjust. Factor</b>	0.9999455662		
<b>Combined Adjust. Factor</b>	0.9999487260		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	14	56.7901536
<b>Longitude</b>	94	14	3.9574320
<b>Ellipsoid Height:</b>	318.822		
<b>Grid Northing (Meters)</b>	214,825.0740		
<b>Grid Easting (Meters)</b>	199,187.4230		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	190	27.70	90.9
MK # 2	COMBINATION POLE	196	35.30	115.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: SAL5	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. STATIC UPDATED IN AUGUST OF 2013 FROM STATIC OBSERVATIONS BY S5112 FOR JOB #'S 090347 & 090402. **NOTE: ELEVATION FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. *****SEE DATASHEET FOR 040049 (p.2) FOR LATEST OBSERVED POSITION ON
Ref Mon # 2: MOCA	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040049 (p.2)	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090513
--------------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 214,825.0206	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 199,187.4203	<b>0.0020</b>	<b>Latitude</b> 36 14 56.7884220
<b>Elevation (M)*</b> 346.820		<b>Longitude</b> 94 14 3.9574932
<b>Northing (SFT)</b> 704,805.0884		<b>Ellipsoid Height (M):</b> 318.687 0.0030
<b>Easting (SFT)</b> 653,500.7281		<b>Geoid Height (M):</b> -28.125 0.0030
<b>Elevation (SFT)*</b> 1,137.859		

  

<b>Convergence Angle</b> -1 18 0.7718513	<b>Scale Factor</b> 1.000003160	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999455756	<b>Combined Adjust. Factor</b> 0.9999487354	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 0.75 MILES TO THE STATION MARK ON THE LEFT, EAST 9.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040049 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					040118
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	<b>Comments</b> SEE DATASHEET 040049 (p.1) FOR PREVIOUS DATA ON THIS GPS POINT *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040050	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 72	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,816.3890	
<b>Easting (M)</b>	202,894.7690	
<b>Elevation (M)*</b>	387.197	
<b>Northing (SFT)</b>	701,495.9362	
<b>Easting (SFT)</b>	665,663.9213	
<b>Elevation (SFT)*</b>	1,270.329	

  

<b>Convergence Angle</b>	-1	16	33.8619970
<b>Scale Factor</b>	1.000001483		
<b>Elevation Adjust. Factor</b>	0.9999392398		
<b>Combined Adjust. Factor</b>	0.9999407227		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GO LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE AHEAD ON ZIEGLER LANE FOR 0.80 MILES TO A GRAVEL ROAD ON THE RIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE RIGHT, WEST 4.40 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040050 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	52	10.85	35.6
MK # 2	BRACE POST ON FENCE	353	7.90	25.9
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 1	AGRONOMY	
Ref Mon # 2	V 26	
Ref Mon # 3	SAL1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040050A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 72	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,593.3500	
<b>Easting (M)</b>	203,048.7720	
<b>Elevation (M)*</b>	391.768	
<b>Northing (SFT)</b>	700,764.1825	
<b>Easting (SFT)</b>	666,169.1795	
<b>Elevation (SFT)*</b>	1,285.326	

  

<b>Convergence Angle</b>	-1	16	30.1582269
<b>Scale Factor</b>	1.000001088		
<b>Elevation Adjust. Factor</b>	0.9999385226		
<b>Combined Adjust. Factor</b>	0.9999396105		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	25	13.45	44.1
<b>MK # 2</b>	END OF FENCE	35	13.65	44.8
<b>MK # 3</b>	POWER POLE	299	29.35	96.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	<b>Comments</b>  3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
---	---

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GO LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE AHEAD ON ZIEGLER LANE FOR 0.70 MILES TO THE STATION ON THE RIGHT, SOUTH 5.25 METERS OF THE CENTERLINE AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040050A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

<b>AZ Mark Station</b>	040050
<b>Geodetic Azimuth</b>	324 06 03
<b>Grid Azimuth</b>	325 22 33

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040051	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 001966, 012111
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,011.7080	
<b>Easting (M)</b>	204,970.8080	
<b>Elevation (M)*</b>	393.048	
<b>Northing (SFT)</b>	698,855.9120	
<b>Easting (SFT)</b>	672,475.0592	
<b>Elevation (SFT)*</b>	1,289.526	

  

<b>Convergence Angle</b>	-1	15	45.0790450
<b>Scale Factor</b>	1.000000123		
<b>Elevation Adjust. Factor</b>	0.9999383217		
<b>Combined Adjust. Factor</b>	0.9999384447		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON WHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.80 MILES TO THE STATION IN THE MEDIAN, 10.70 METERS NORTHWEST OF THE NORTH BOUND LANE, SOUTHEAST 5.10 METERS OF THE SOUTH BOUND LANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040051 2004" ON TOP OF A 10.37 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AGRONOMY Ref Mon # 2    V 26 Ref Mon # 3    SAL1	<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040051A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 001966, 012111
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,647.4380	
<b>Easting (M)</b>	204,383.2210	
<b>Elevation (M)*</b>	381.317	
<b>Northing (SFT)</b>	697,660.8028	
<b>Easting (SFT)</b>	670,547.2842	
<b>Elevation (SFT)*</b>	1,251.037	

  

<b>Convergence Angle</b>	-1	15	58.5804927
<b>Scale Factor</b>	0.999999452		
<b>Elevation Adjust. Factor</b>	0.9999401625		
<b>Combined Adjust. Factor</b>	0.9999396146		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON WHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.40 MILES TO THE STATION IN THE MEDIAN, 10.35 METERS NORTHWEST OF THE NORTH BOUND LANE, SOUTHEAST 5.00 METERS OF THE SOUTH BOUND LANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040051A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    AGRONOMY Ref Mon # 2    V 26 Ref Mon # 3    SAL1	<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040052	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 001966,012069,090240,01211
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,054.0580	
<b>Easting (M)</b>	206,785.2050	
<b>Elevation (M)*</b>	388.133	
<b>Northing (SFT)</b>	705,556.5220	
<b>Easting (SFT)</b>	678,427.7934	
<b>Elevation (SFT)*</b>	1,273.400	

  

<b>Convergence Angle</b>	-1	15	3.8478416
<b>Scale Factor</b>	1.000003889		
<b>Elevation Adjust. Factor</b>	0.9999390930		
<b>Combined Adjust. Factor</b>	0.9999429817		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE HIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.1 MILES TO THE STATION MARK ON THE LEFT, EAST 23.8 METERS OF THE NORTH BOUND LANE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040052 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    AGRONOMY Ref Mon # 2    V 26 Ref Mon # 3    SAL1	<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040052A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 001966,012069
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,516.6670	
<b>Easting (M)</b>	206,716.9080	
<b>Elevation (M)*</b>	390.765	
<b>Northing (SFT)</b>	703,793.4316	
<b>Easting (SFT)</b>	678,203.7223	
<b>Elevation (SFT)*</b>	1,282.035	

  

<b>Convergence Angle</b>	-1	15	5.1657831
<b>Scale Factor</b>	1.000002904		
<b>Elevation Adjust. Factor</b>	0.9999386800		
<b>Combined Adjust. Factor</b>	0.9999415838		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE HIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.4 MILES TO THE STATION MARK IN THE MEDIAN, EAST 5.35 METERS OF THE NORTH BOUND LANE, WEST 10.75 METERS OF THE SOUTH BOUND LANE AND EAST 10.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 164mm CAP STAMPED " 040052A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	<b>Comments</b> 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040053	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 71B	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,658.3550	
<b>Easting (M)</b>	207,857.3520	
<b>Elevation (M)*</b>	413.761	
<b>Northing (SFT)</b>	697,696.6197	
<b>Easting (SFT)</b>	681,945.3290	
<b>Elevation (SFT)*</b>	1,357.481	

  

<b>Convergence Angle</b>	-1	14	37.6518229
<b>Scale Factor</b>	0.999999607		
<b>Elevation Adjust. Factor</b>	0.9999350716		
<b>Combined Adjust. Factor</b>	0.9999346786		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CMP		178		15.25	50.0
MK # 2	LIGHT POLE		358		20.30	66.6
MK # 3	NORTHEAST CORNER METAL BRIDGE		243		23.00	75.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2 V 26	
Ref Mon # 3 SAL1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040053A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 71B	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,056.5050	
<b>Easting (M)</b>	207,857.5560	
<b>Elevation (M)*</b>	410.220	
<b>Northing (SFT)</b>	695,722.0502	
<b>Easting (SFT)</b>	681,945.9983	
<b>Elevation (SFT)*</b>	1,345.862	

  

<b>Convergence Angle</b>	-1	14	37.3426732
<b>Scale Factor</b>	0.999998542		
<b>Elevation Adjust. Factor</b>	0.9999356273		
<b>Combined Adjust. Factor</b>	0.9999341694		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	ELECTRIC METER	9	7.55	24.8
<b>MK # 2</b>	LIGHT POLE	170	10.90	35.8
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF 71B AND THE WASHINGTON/BENTON COUNTY LINE, NORTH OF FAYETTEVILLE, GO NORTH ON 71B FOR 1.10 MILE TO THE STATION ON THE RIGHT, SOUTH OF A CONC DRIVE 22.1 METERS, EAST 14.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 1.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040053A 2004" ON TOP OF A 1.22 METER IRON ROD. THE MARK IS 0.10 MILES NORTH OF 71B AND 264E.	

  

<b>AZ Mark Station</b>	040053
<b>Geodetic Azimuth</b>	358 44 12
<b>Grid Azimuth</b>	359 58 50

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040054	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966,012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,483.3200	
<b>Easting (M)</b>	209,963.1050	
<b>Elevation (M)*</b>	423.395	
<b>Northing (SFT)</b>	697,122.3590	
<b>Easting (SFT)</b>	688,853.9537	
<b>Elevation (SFT)*</b>	1,389.089	

  

<b>Convergence Angle</b>	-1	13	48.5073984
<b>Scale Factor</b>	0.999999377		
<b>Elevation Adjust. Factor</b>	0.9999335599		
<b>Combined Adjust. Factor</b>	0.9999329370		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ROAD 0.45 MILES TO THE STATION ON THE LEFT, NORTH 14.0 METERS OF A GRAVEL DRIVE, WEST 8.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040054 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH GATE POST	169	9.90	32.5
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	040054A
<b>Geodetic Azimuth</b>	354 03 55
<b>Grid Azimuth</b>	355 17 43

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY	3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 423.3994 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012 & the elevation updated.
Ref Mon # 2 V 26	
Ref Mon # 3 SAL1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040054A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966,012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,996.7580	
<b>Easting (M)</b>	209,920.8510	
<b>Elevation (M)*</b>	420.963	
<b>Northing (SFT)</b>	698,806.8635	
<b>Easting (SFT)</b>	688,715.3253	
<b>Elevation (SFT)*</b>	1,381.108	

  

<b>Convergence Angle</b>	-1	13	49.7486773
<b>Scale Factor</b>	1.000000288		
<b>Elevation Adjust. Factor</b>	0.9999339416		
<b>Combined Adjust. Factor</b>	0.9999342296		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ROAD 0.75 MILES TO THE STATION ON THE RIGHT, ACROSS THE ROAD FROM THE JUNCTION OF OLD WIRE ROAD AND QUAIL RUN STREET, 8.70 METERS EAST OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040054A 2004" ON TOP OF A 0.77 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    AGRONOMY Ref Mon # 2    V 26 Ref Mon # 3    SAL1	<b>Comments</b>  3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 420.9661 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012 & the elevation updated.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040055	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,505.0109	
<b>Easting (M)</b>	211,844.9850	
<b>Elevation (M)*</b>	429.865	
<b>Northing (SFT)</b>	693,912.6899	
<b>Easting (SFT)</b>	695,028.0883	
<b>Elevation (SFT)*</b>	1,410.315	

  

<b>Convergence Angle</b>	-1	13	4.1819555
<b>Scale Factor</b>	0.999997725		
<b>Elevation Adjust. Factor</b>	0.9999325447		
<b>Combined Adjust. Factor</b>	0.9999302699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	180	51.00	167.3
MK # 2				
MK # 3				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AGRONOMY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SAL1</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AGRONOMY	Ref Mon # 2	V 26	Ref Mon # 3	SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&amp;F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AGRONOMY										
Ref Mon # 2	V 26										
Ref Mon # 3	SAL1										
Comments											
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.											

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND MOUNTAIN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON MOUNTAIN ROAD FOR 0.15 MILES TO THE STATION MARK ON THE LEFT, EAST OF THE CENTERLINE OF THE HIGHWAY 8.10 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040055 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

<b>AZ Mark Station</b>	040055A
<b>Geodetic Azimuth</b>	182 19 21
<b>Grid Azimuth</b>	183 32 26

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040055A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	210,935.1020				
<b>Easting (M)</b>	211,809.7240				
<b>Elevation (M)*</b>	426.880				
<b>Northing (SFT)</b>	692,042.9138				
<b>Easting (SFT)</b>	694,912.4028				
<b>Elevation (SFT)*</b>	1,400.522				

  

<b>Convergence Angle</b>	-1	13	4.7210744
<b>Scale Factor</b>	0.999996731		
<b>Elevation Adjust. Factor</b>	0.9999330131		
<b>Combined Adjust. Factor</b>	0.9999297443		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	198	3.57	11.7
<b>MK # 2</b>	CMP	10	7.30	24.0
<b>MK # 3</b>	TELEPHONE RISER	1	20.50	67.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND MOUNTIAN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON MOUNTIAN ROAD FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 112.25 METERS SOUTH OF A GRAVEL DRIVE, WEST OF THE CENTERLINE OF THE HIGHWAY 4.95 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040055A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	040055
<b>Geodetic Azimuth</b>	2 19 21
<b>Grid Azimuth</b>	3 32 26

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040056	<b>Date Monumented</b> 9/9/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,073.2280	
<b>Easting (M)</b>	213,440.1630	
<b>Elevation (M)*</b>	423.890	
<b>Northing (SFT)</b>	689,215.2489	
<b>Easting (SFT)</b>	700,261.6014	
<b>Elevation (SFT)*</b>	1,390.711	

  

<b>Convergence Angle</b>	-1	12	26.3210347
<b>Scale Factor</b>	0.999995304		
<b>Elevation Adjust. Factor</b>	0.9999334823		
<b>Combined Adjust. Factor</b>	0.9999287866		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	12	32.7795912
<b>Longitude</b>	94	4	29.2001160
<b>Ellipsoid Height (M):</b>	395.942		
<b>Geoid Height (M):</b>	-27.975		

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 0.05 MILES TO THE STATION ON THE RIGHT, SOUTH 5.50 METERS OF THE CENTERLINE AND NORTH 3.25 METERS OF A WITNESS POST: THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056 2004" ON TOP OF A 0.67 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2: V 26	
Ref Mon # 3: SAL1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040056A	<b>Date Monumented</b> 9/9/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,062.7550	
<b>Easting (M)</b>	214,049.0560	
<b>Elevation (M)*</b>	426.465	
<b>Northing (SFT)</b>	689,180.8887	
<b>Easting (SFT)</b>	702,259.2779	
<b>Elevation (SFT)*</b>	1,399.160	

  

<b>Convergence Angle</b>	-1	12	12.1345899
<b>Scale Factor</b>	0.999995308		
<b>Elevation Adjust. Factor</b>	0.9999330783		
<b>Combined Adjust. Factor</b>	0.9999283866		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	57	8.65	28.4
<b>MK # 2</b>	GATE POST WEST END	158	16.50	54.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    12    32.8554360
<b>Longitude</b>	94    4    4.8205560
<b>Ellipsoid Height (M):</b>	398.533
<b>Geoid Height (M):</b>	-27.975

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 0.30 MILES TO THE STATION ON THE LEFT, NORTH 6.4 METERS OF THE CENTERLINE AND SOUTH 4.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040057	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090196,090268
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,908.1350	
<b>Easting (M)</b>	172,590.9020	
<b>Elevation (M)*</b>	360.135	
<b>Northing (SFT)</b>	678,831.1062	
<b>Easting (SFT)</b>	566,241.9843	
<b>Elevation (SFT)*</b>	1,181.543	

  

<b>Convergence Angle</b>	-1	28	15.7207475
<b>Scale Factor</b>	0.999988452		
<b>Elevation Adjust. Factor</b>	0.9999434863		
<b>Combined Adjust. Factor</b>	0.9999319389		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE STATE HIGHWAY 412 OVERPASS BRIDGE OVER STATE HIGHWAY 59 SOUTH, IN SILOAM SPRINGS, EAST OF THE CENTERLINE OF HIGHWAY 59 6.0 METERS, AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	5	14.60	47.9
MK # 2	NORTHEAST CORNER OF STORM DRAIN	189	5.05	16.6
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SAL1	3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05.
Ref Mon # 2	NDS1	
Ref Mon # 3	040038	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040057A	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090196,090268
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,966.3940	
<b>Easting (M)</b>	172,105.3070	
<b>Elevation (M)*</b>	362.016	
<b>Northing (SFT)</b>	679,022.2443	
<b>Easting (SFT)</b>	564,648.8280	
<b>Elevation (SFT)*</b>	1,187.714	

  

<b>Convergence Angle</b>	-1	28	27.0588090
<b>Scale Factor</b>	0.999988525		
<b>Elevation Adjust. Factor</b>	0.9999431911		
<b>Combined Adjust. Factor</b>	0.9999317167		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 SOUTH AND STATE HIGHWAY 412, IN SILOAM SPRINGS, GO WEST ON HIGHWAY 412 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, 11.0 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	223	1.60	5.2
MK # 2	DROP INLET	102	9.90	32.5
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SAL1	<p>3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05.</p>
Ref Mon # 2	NDS1	
Ref Mon # 3	040038	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040058	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090196, 090506
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	200,138.7619	
<b>Easting (M)</b>	171,892.5290	
<b>Elevation (M)*</b>	287.513	
<b>Northing (SFT)</b>	656,621.9213	
<b>Easting (SFT)</b>	563,950.7389	
<b>Elevation (SFT)*</b>	943.282	

  

<b>Convergence Angle</b>	-1	28	27.9209957
<b>Scale Factor</b>	0.999978081		
<b>Elevation Adjust. Factor</b>	0.9999548819		
<b>Combined Adjust. Factor</b>	0.9999329639		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	209	11.45	37.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="SAL1"/> <b>Ref Mon # 2</b> <input type="text" value="NDS1"/> <b>Ref Mon # 3</b> <input type="text" value="040038"/>	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040059	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966, 090069
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	211,361.9285	0.0020	
<b>Easting (M)</b>	197,432.1933	0.0020	
<b>Elevation (M)*</b>	384.204		
<b>Northing (SFT)</b>	693,443.2604		
<b>Easting (SFT)</b>	647,742.1209		
<b>Elevation (SFT)*</b>	1,260.511		

  

<b>Convergence Angle</b>	-1	18	39.8237079
<b>Scale Factor</b>	0.999996921		
<b>Elevation Adjust. Factor</b>	0.9999397094		
<b>Combined Adjust. Factor</b>	0.9999366306		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	13	3.1664100
<b>Longitude</b>	94	15	11.0693448
<b>Ellipsoid Height:</b>	356.179		
<b>Grid Northing (Meters)</b>	211,361.9280		
<b>Grid Easting (Meters)</b>	197,432.1730		

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 040130A, 040131, 040117-2	SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1260.5421 US SURVEY FEET BASED ON GEOID HT OF -28.035 METERS ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069
<b>Ref Mon # 2</b> ARFS, ARFY	
<b>Ref Mon # 3</b> MOA2	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	36   13   3.1664424
<b>Longitude</b>	94   15   11.0685348
<b>Ellipsoid Height (M):</b>	356.083   0.0040
<b>Geoid Height (M):</b>	-28.133   0.0040

Location Description
<p>To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs, go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road" on the left. Go left on Marchant road for 1.40 miles to the station on the right. 6.10 meters west of the center of Marchant road and 1.10 meters east of a witness post. The station mark is a standard 64mm cap stamped "040059 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>

<b>AZ Mark Station</b>	040059A
<b>Geodetic Azimuth</b>	003 21 26
<b>Grid Azimuth</b>	004 40 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040059A	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 001966, 090069
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	211,664.9766	0.0020	
<b>Easting (M)</b>	197,456.9325	0.0020	
<b>Elevation (M)*</b>	390.497		
<b>Northing (SFT)</b>	694,437.5107		
<b>Easting (SFT)</b>	647,823.2860		
<b>Elevation (SFT)*</b>	1,281.155		

  

<b>Convergence Angle</b>	-1	18	39.4090161
<b>Scale Factor</b>	0.999997450		
<b>Elevation Adjust. Factor</b>	0.9999387221		
<b>Combined Adjust. Factor</b>	0.9999361723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	13	13.0138932
<b>Longitude</b>	94	15	10.3564152
<b>Ellipsoid Height:</b>	362.464		
<b>Grid Northing (Meters)</b>	211,664.9700		
<b>Grid Easting (Meters)</b>	197,456.9190		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser	260	15.10	49.5
<b>MK # 2</b>	Fence corner	280	8.05	26.4
<b>MK # 3</b>	Telephone riser	179	18.85	61.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 040130A, 040131, 040117-2	SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1281.1654 US SURVEY FEET BASED ON GEOID HT OF -28.036 METERS ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069
<b>Ref Mon # 2</b> ARFS, ARFY	
<b>Ref Mon # 3</b> MOA2	

  

<b>Vertical Determined By:</b> NONE	<b>Elevation Datum:</b> NONE
<b>Geoid Datum:</b> Geoid 12B	<b>Latitude</b> 36 13 13.0141164
<b>Longitude</b> 94 15 10.3558824	<b>Ellipsoid Height (M):</b> 362.379 0.0040
<b>Geoid Height (M):</b> -28.133 0.0040	

  

Location Description
To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs, go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road" on the left. Go left on Marchant road for 1.20 miles to the station on the right. 11.90 meters east of "trails end ranch road", 8.50 meters north of the center of Marchant road and 0.70 Meters south of a witness post. The station mark is a standard 64mm cap stamped "040059A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040061	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR70	<b>Job Number:</b> 001966,090286
--------------------------	------------------------------------	------------------------------	-------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,885.9979	
<b>Easting (M)</b>	202,870.6770	
<b>Elevation (M)*</b>	353.555	
<b>Northing (SFT)</b>	695,162.6448	
<b>Easting (SFT)</b>	665,584.8795	
<b>Elevation (SFT)*</b>	1,159.956	

  

<b>Convergence Angle</b>	-1	16	33.4215533
<b>Scale Factor</b>	0.999998050		
<b>Elevation Adjust. Factor</b>	0.9999445187		
<b>Combined Adjust. Factor</b>	0.9999425688		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gate post	248	22.60	74.1
<b>MK # 2</b>	Wooden corner post	017	16.70	54.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> 720036, 720037, 040050, 04005 <b>Ref Mon # 2</b> AGRONOMY <b>Ref Mon # 3</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.</td> </tr> </table>	Comments	ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.
Comments			
ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.			

  

Location Description			
To reach the station from exit 76 ( Wagon Wheel road) on I 540 take "Wagon Wheel road" west for 0.90 miles to county road 70 on the left also known as North 56th street. Go left on CR 70 for 0.10 miles to the station on the left at a gravel road junction. 17.70 meters east of the center of CR 70, 7.70 meters south of the center of the gravel road and 0.50 meters north of a witness post. The station mark is a standard 64mm cap stamped "040061 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040061A	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 70	<b>Job Number:</b> 001966,090286
---------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,585.1189	
<b>Easting (M)</b>	202,802.2390	
<b>Elevation (M)*</b>	359.518	
<b>Northing (SFT)</b>	694,175.5109	
<b>Easting (SFT)</b>	665,360.3458	
<b>Elevation (SFT)*</b>	1,179.518	

  

<b>Convergence Angle</b>	-1	16	34.8595855
<b>Scale Factor</b>	0.999997521		
<b>Elevation Adjust. Factor</b>	0.9999435831		
<b>Combined Adjust. Factor</b>	0.9999411042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Corner and gate post	171	10.50	34.4
MK # 2	Gate post	090	12.55	41.2
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> 720036, 720037, 040050, 04005 <b>Ref Mon # 2</b> AGRONOMY <b>Ref Mon # 3</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.</td> </tr> </table>	Comments	ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.
Comments			
ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.			

  

Location Description	
To reach the station from exit 76 ( Wagon Wheel road) on I 540 take "Wagon Wheel road" west for 0.90 miles to county road 70 on the left also known as North 56th street. Go left on CR 70 for 0.30 miles to the station on the right. 12.0 meters north of a gravel drive, 6.70 meters west of the center of CR 70 and 1.20 meters east of a witness post. The station mark is a standard 64mm cap stamped "040061A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040063	<b>Date Monumented</b> 6/17/2008	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 090260
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	231,281.0101	
<b>Easting (M)</b>	204,126.1480	
<b>Elevation (M)*</b>	383.944	
<b>Northing (SFT)</b>	758,794.4473	
<b>Easting (SFT)</b>	669,703.8706	
<b>Elevation (SFT)*</b>	1,259.655	

  

<b>Convergence Angle</b>	-1	16	14.1973193
<b>Scale Factor</b>	1.000036796		
<b>Elevation Adjust. Factor</b>	0.9999397504		
<b>Combined Adjust. Factor</b>	0.9999765442		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of I 540 &amp; hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 1.30 miles to the station on the right on top of a small hill about 12 feet above the road surface next to the right of way fence. 57.7 feet northeast of the east edge of the northbound lane and 3.40 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "040063 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Bentonville 44</td> </tr> <tr> <td>Ref Mon # 3</td> <td>V 26</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	Bentonville 44	Ref Mon # 3	V 26	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           3-wire levels ran by CTS from GPS 040044 &amp; 040044A which were est. by NGS 1st order mark on 08 Aug. 08.         </td> </tr> </table>	Comments	3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.
Ref Mon # 1	ARFY								
Ref Mon # 2	Bentonville 44								
Ref Mon # 3	V 26								
Comments									
3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040063A	<b>Date Monumented</b> 6/17/2008	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 540	<b>Job Number:</b> 090260
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	230,695.3291	
<b>Easting (M)</b>	204,073.4450	
<b>Elevation (M)*</b>	386.669	
<b>Northing (SFT)</b>	756,872.9256	
<b>Easting (SFT)</b>	669,530.9608	
<b>Elevation (SFT)*</b>	1,268.595	

  

<b>Convergence Angle</b>	-1	16	15.1243516
<b>Scale Factor</b>	1.000035488		
<b>Elevation Adjust. Factor</b>	0.9999393228		
<b>Combined Adjust. Factor</b>	0.9999748086		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of I 540 &amp; hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 0.90 miles to the station on the left 44.3 feet southwest of the edge of the pavement of the southbound lane by the right of way fence and 4.30 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040063A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    Bentonville 44</p> <p>Ref Mon # 3    V 26</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran by CTS from GPS 040044 &amp; 040044A which were est. by NGS 1st order mark on 08 Aug. 08.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040064	<b>Date Monumented</b> 3/31/2009	<b>Monumented By</b> AHTD	<b>County</b> Benton	<b>Route</b> 12	<b>Job Number:</b> 040151
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,109.3020	
<b>Easting (M)</b>	230,400.1510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	699,176.1016	
<b>Easting (SFT)</b>	755,904.4954	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	5	52.6576703
<b>Scale Factor</b>	1.000001236		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 12 and 45 just north of Hindsville go west on hwy-12 for 2.60 miles to the station on the right. 32.0 feet north of the center of hwy-12, 25.0 feet east of a field entrance and 6.60 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040064A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040064A	<b>Date Monumented</b> 3/31/2009	<b>Monumented By</b> AHTD	<b>County</b> Benton	<b>Route</b> 12	<b>Job Number:</b> 040151
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,128.5010	
<b>Easting (M)</b>	229,974.9130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	699,239.0904	
<b>Easting (SFT)</b>	754,509.3604	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	6	2.5743369
<b>Scale Factor</b>	1.000001256		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of north end of a culvert	247	53.95	177.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040065	<b>Date Monumented</b> 12/2/2009	<b>Monumented By</b> AHTD	<b>County</b> Benton	<b>Route</b> 540	<b>Job Number:</b> 012111
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,923.7661	
<b>Easting (M)</b>	204,112.4500	
<b>Elevation (M)*</b>	390.026	
<b>Northing (SFT)</b>	737,937.3893	
<b>Easting (SFT)</b>	669,658.9297	
<b>Elevation (SFT)*</b>	1,279.612	

  

<b>Convergence Angle</b>	-1	16	11.2274942
<b>Scale Factor</b>	1.000023082		
<b>Elevation Adjust. Factor</b>	0.9999387959		
<b>Combined Adjust. Factor</b>	0.9999618765		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of a twin box culvert	52	10.27	33.7
<b>MK # 2</b>	underground telephone cable marker	5	9.78	32.1
<b>MK # 3</b>	Large green electrical box	220	6.10	20.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> WWED	Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> 040018, 040044	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040066	<b>Date Monumented</b> 6/29/2016	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> SR-59	<b>Job Number:</b> 090434
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 12A		
<b>Northing (M)</b> 224,842.3607	<b>0.0040</b>	<b>Latitude</b> 36 20 6.2860668
<b>Easting (M)</b> 179,271.1939	<b>0.0040</b>	<b>Longitude</b> 94 27 31.4442036
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 352.422 0.0080
<b>Northing (SFT)</b> 737,670.3117		<b>Geoid Height (M):</b> -28.138 0.0080
<b>Easting (SFT)</b> 588,158.9087		
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 25 50.6476640	<b>Scale Factor</b> 1.000021701
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>				
FROM JCT OF SR-59 & SR-102 IN DECATUR, GO S ON SR-59 0.05 MI, TURN L & GO E ON CHURCH ST 0.1 MI TO STA ON R, JUST PAST THE CHURCH. 18' S OF C/L OF CHURCH ST. STA IS A 2 1/2" ALUMCAP STAMPED "040066 2016" SET BELLOW SURFACE.				

  

<b>Location Reference Marks</b>					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NE COR OF BRICK CHURCH	251	56.60	185.7	040066A
MK # 2	SERVICE POLE	332	42.50	139.4	
MK # 3	GAS METER	263	36.70	120.4	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 SAL5	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040066A	<b>Date Monumented</b> 6/29/2016	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> SR-59	<b>Job Number:</b> 090434
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 224,367.7553	<b>0.0040</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 179,292.5619	<b>0.0040</b>	<b>Latitude</b> 36 19 50.9110644
<b>Elevation (M)*</b>		<b>Longitude</b> 94 27 30.1125960
<b>Northing (SFT)</b> 736,113.2105		<b>Ellipsoid Height (M):</b> 358.260 0.0080
<b>Easting (SFT)</b> 588,229.0135		<b>Geoid Height (M):</b> -28.138 0.0080
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 25 49.8728027	<b>Scale Factor</b> 1.000020727	<b>Location Description</b> FROM JCT OF SR-59 & SR-102 IN DECATUR, GO S ON SR-59 0.4 MI TO STATION ON L JUST N OF "DOLLAR GENERAL". 47.7' E OF C/L SR-59. STA IS A 2 1/2" ALUM CAP STAMPED "040066A 2016" SET BELOW SURFACE.
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PHONE BOX	340	57.20	187.7
<b>MK # 2</b>	DOLLAR GENERAL SIGN	153	24.00	78.7
<b>MK # 3</b>	LIGHT POLE	121	45.00	147.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> SAL5	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040102	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> Aerial Data Service	<b>County</b> BENTON	<b>Route</b> CR 542	<b>Job Number:</b> 009969
--------------------------	-------------------------------------	---	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,530.1231	
<b>Easting (M)</b>	189,558.4938	
<b>Elevation (M)*</b>	397.991	
<b>Northing (SFT)</b>	769,454.2455	
<b>Easting (SFT)</b>	621,909.8251	
<b>Elevation (SFT)*</b>	1,305.742	

  

<b>Convergence Angle</b>	-1	21	56.0761697
<b>Scale Factor</b>	1.000043418		
<b>Elevation Adjust. Factor</b>	0.9999375461		
<b>Combined Adjust. Factor</b>	0.9999809614		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO LEFT, SOUTH ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION ON DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST FOR 1.69 KM (1.05 MI) TO THE JUNCTION OF A PIPE LINE AND THE STATION ON THE RIGHT. THE STATION IS A AERIAL DATA SERVICE 37mm CAP STAMPED "102" SET ON TOP OF AN IRON ROD SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	184	10.97	36.0
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    CASSPORT</p> <p>Ref Mon # 3    FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040102A	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR 542	<b>Job Number:</b> 009969
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,127.3206	
<b>Easting (M)</b>	189,487.1167	
<b>Elevation (M)*</b>	403.422	
<b>Northing (SFT)</b>	768,132.7177	
<b>Easting (SFT)</b>	621,675.6487	
<b>Elevation (SFT)*</b>	1,323.561	

  

<b>Convergence Angle</b>	-1	21	57.5186681
<b>Scale Factor</b>	1.000042486		
<b>Elevation Adjust. Factor</b>	0.9999366939		
<b>Combined Adjust. Factor</b>	0.9999791772		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO SOUTH, ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST ON DICKSON ROAD FOR 2.10 KM (1.30 MI) TO THE JUNCTION OF A GRAVEL DRIVEWAY AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 64mm CAP STAMPED "040102A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	303	2.07	6.8
MK # 2	CORNER POST	185	11.10	36.4
MK # 3	TELEPHONE JUNCTION BOX	230	12.60	41.3

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	V 26	
Ref Mon # 2	CASSPORT	
Ref Mon # 3	FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040103	<b>Date Monumented</b> 10/4/2010	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 16	<b>Job Number:</b> 090282
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	202,848.1159	
<b>Easting (M)</b>	176,892.9130	
<b>Elevation (M)*</b>	336.139	
<b>Northing (SFT)</b>	665,510.8602	
<b>Easting (SFT)</b>	580,356.1654	
<b>Elevation (SFT)*</b>	1,102.816	

  

<b>Convergence Angle</b>	-1	26	33.2017966
<b>Scale Factor</b>	0.999982277		
<b>Elevation Adjust. Factor</b>	0.9999472516		
<b>Combined Adjust. Factor</b>	0.9999295295		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" CHERRY TREE	152	14.20	46.6
MK # 2	PP WITH GY	267	4.51	14.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 OKTU	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010
Ref Mon # 2 WWED	
Ref Mon # 3 CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040104	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,477.1559	0.0015
<b>Easting (M)</b>	209,564.1122	0.0013
<b>Elevation (M)*</b>	412.717	
<b>Northing (SFT)</b>	706,944.6356	
<b>Easting (SFT)</b>	687,544.9248	
<b>Elevation (SFT)*</b>	1,354.057	

  

<b>Convergence Angle</b>	-1	13	59.3037330
<b>Scale Factor</b>	1.000004778		
<b>Elevation Adjust. Factor</b>	0.9999352354		
<b>Combined Adjust. Factor</b>	0.9999400131		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	79	38.40	126.0
MK # 2	COMBINATION POLE	24	21.64	71.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	See Comments
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	36 15 25.3823724
<b>Longitude</b>	94 7 8.9918976
<b>Ellipsoid Height (M):</b>	384.659 0.0031
<b>Geoid Height (M):</b>	-28.068 0.0031

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, IN LOWELL, GO NORTH ON 71B 0.25 MILES TO MCCLURE AVE AND TURN RIGHT (EAST) AND GO 1.0 MILE TO THE STATION MARK ON THE RIGHT, SOUTH 46 FEET OF THE CENTERLINE OF THE STREET AND 17.5 FEET WEST OF AN ASPHALT DRIVE TO THE PARK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040104 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040104A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,529.9604	
<b>Easting (M)</b>	209,023.4980	
<b>Elevation (M)*</b>	416.101	
<b>Northing (SFT)</b>	707,117.8784	
<b>Easting (SFT)</b>	685,771.2597	
<b>Elevation (SFT)*</b>	1,365.157	

  

<b>Convergence Angle</b>	-1	14	11.9287974
<b>Scale Factor</b>	1.000004854		
<b>Elevation Adjust. Factor</b>	0.9999347045		
<b>Combined Adjust. Factor</b>	0.9999395582		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, IN LOWELL, GO NORTH ON 71B 0.25 MILES TO MCCLURE AVE AND TURN RIGHT (EAST) AND GO 0.6 MILES TO THE STATION MARK ON THE LEFT, NORTH 18.7 FEET OF THE CENTERLINE OF THE STREET, 7.3 FEET SOUTH OF A 6 FOOT WOOD FENCE, 2.0 SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040104A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH A GUY	295	6.34	20.8
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3RD ORDER Combination of 3-Wire &amp; Digital Levels ran from NGS J 309 and V 26 by CTA &amp; S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040105	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,331.0247	
<b>Easting (M)</b>	212,389.6242	
<b>Elevation (M)*</b>	347.512	
<b>Northing (SFT)</b>	716,307.7035	
<b>Easting (SFT)</b>	696,814.9587	
<b>Elevation (SFT)*</b>	1,140.130	

  

<b>Convergence Angle</b>	-1	12	54.8681642
<b>Scale Factor</b>	1.000010265		
<b>Elevation Adjust. Factor</b>	0.9999454670		
<b>Combined Adjust. Factor</b>	0.9999557314		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, 17 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 29 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE &amp; DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040105A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,581.7837	
<b>Easting (M)</b>	212,161.9462	
<b>Elevation (M)*</b>	351.951	
<b>Northing (SFT)</b>	717,130.4020	
<b>Easting (SFT)</b>	696,067.9852	
<b>Elevation (SFT)*</b>	1,154.691	

  

<b>Convergence Angle</b>	-1	13	0.2999296
<b>Scale Factor</b>	1.000010738		
<b>Elevation Adjust. Factor</b>	0.9999447705		
<b>Combined Adjust. Factor</b>	0.9999555079		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE RIGHT, 22.6 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE &amp; DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040106	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,326.3144	
<b>Easting (M)</b>	209,144.4199	
<b>Elevation (M)*</b>	406.529	
<b>Northing (SFT)</b>	716,292.2498	
<b>Easting (SFT)</b>	686,167.9843	
<b>Elevation (SFT)*</b>	1,333.755	

  

<b>Convergence Angle</b>	-1	14	10.5171140
<b>Scale Factor</b>	1.000010123		
<b>Elevation Adjust. Factor</b>	0.9999362064		
<b>Combined Adjust. Factor</b>	0.9999463287		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 71B, IN ROGERS, GO SOUTH ON 71B 2.0 MILES AND TURN LEFT (EAST) ON EAST PLEASANT GROVE ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 36.5 FEET OF THE CENTERLINE OF THE STREET, 10.3 FEET NORTH OF THE NORTH EDGE OF THE THE SIDE WALK AND SOUTH 3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	270	30.17	99.0
MK # 2	COMBINATION POLE W/LIGHT	95	34.75	114.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE &amp; DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040106A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,283.5707	
<b>Easting (M)</b>	209,603.3720	
<b>Elevation (M)*</b>	409.580	
<b>Northing (SFT)</b>	716,152.0149	
<b>Easting (SFT)</b>	687,673.7296	
<b>Elevation (SFT)*</b>	1,343.762	

  

<b>Convergence Angle</b>	-1	13	59.7967759
<b>Scale Factor</b>	1.000010060		
<b>Elevation Adjust. Factor</b>	0.9999357278		
<b>Combined Adjust. Factor</b>	0.9999457871		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/LIGHT AND A GUY	73	18.59	61.0
<b>MK # 2</b>	GUY POLE W/2 GUYS	107	19.72	64.7
<b>MK # 3</b>	TELEPHONE BOX	121	10.51	34.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE &amp; DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 71B, IN ROGERS, GO SOUTH ON 71B 2.0 MILES AND TURN LEFT (EAST) ON EAST PLEASANT GROVE ROAD AND GO 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 30.7 FEET OF THE CENTERLINE OF THE STREET, 4 FEET SOUTH OF THE SOUTH EDGE OF THE THE SIDE WALK, WEST 42 FEET OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>Vertical Determined By:</b>	See Comments		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 09		
<b>Latitude</b>	36	16	56.4364056
<b>Longitude</b>	94	7	9.8391972
<b>Ellipsoid Height (M):</b>	381.491		
<b>Geoid Height (M):</b>	-28.084		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040107	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,518.3103	
<b>Easting (M)</b>	209,776.7942	
<b>Elevation (M)*</b>	412.445	
<b>Northing (SFT)</b>	726,764.6564	
<b>Easting (SFT)</b>	688,242.6990	
<b>Elevation (SFT)*</b>	1,353.165	

  

<b>Convergence Angle</b>	-1	13	57.3765208
<b>Scale Factor</b>	1.000016395		
<b>Elevation Adjust. Factor</b>	0.9999352781		
<b>Combined Adjust. Factor</b>	0.9999516720		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON 94 0.45 MILES TO MARK ON THE LEFT. 5.2 FEET SOUTH OF SOUTH EDGE OF SIDEWALK, 251 FEET WEST OF THE CENTERLINE OF 1ST STREET. 35.0 FEET NORTH OF THE CENTERLINE OF HIGHWAY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040107 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.</p>
--	--

  

<b>AZ Mark Station</b>	040107A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040107A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,555.3187	
<b>Easting (M)</b>	209,294.2012	
<b>Elevation (M)*</b>	405.796	
<b>Northing (SFT)</b>	726,886.0748	
<b>Easting (SFT)</b>	686,659.3918	
<b>Elevation (SFT)*</b>	1,331.350	

  

<b>Convergence Angle</b>	-1	14	8.6491983
<b>Scale Factor</b>	1.000016449		
<b>Elevation Adjust. Factor</b>	0.9999363214		
<b>Combined Adjust. Factor</b>	0.9999527693		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WALMART SIGH POST	319	15.39	50.5
<b>MK # 2</b>	HEADWALL	87	11.09	36.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040108	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,422.2675	
<b>Easting (M)</b>	212,489.0491	
<b>Elevation (M)*</b>	420.616	
<b>Northing (SFT)</b>	726,449.5560	
<b>Easting (SFT)</b>	697,141.1553	
<b>Elevation (SFT)*</b>	1,379.973	

  

<b>Convergence Angle</b>	-1	12	54.0787836
<b>Scale Factor</b>	1.000016319		
<b>Elevation Adjust. Factor</b>	0.9999339959		
<b>Combined Adjust. Factor</b>	0.9999503138		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 2.05 MILES TO BLUE HILL ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON LEFT. 21.0 FEET SOUTHWEST FROM THE CENTERLINE OF BLUE HILL ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF GATE	61	21.03	69.0
MK # 2	POWER POLE	46	11.89	39.0
MK # 3	FENCE CORNER	81	18.10	59.4

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040108A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,453.8960	
<b>Easting (M)</b>	212,000.8697	
<b>Elevation (M)*</b>	422.825	
<b>Northing (SFT)</b>	726,553.3238	
<b>Easting (SFT)</b>	695,539.5200	
<b>Elevation (SFT)*</b>	1,387.219	

  

<b>Convergence Angle</b>	-1	13	5.4788292
<b>Scale Factor</b>	1.000016362		
<b>Elevation Adjust. Factor</b>	0.9999336494		
<b>Combined Adjust. Factor</b>	0.9999500103		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 1.85 MILES TO THE MARK ON LEFT. 17.0 FEET NORTH FROM THE CENTERLINE OF HIGHWAY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	12.71	41.7
MK # 2	GAS METER	66	18.51	60.7
MK # 3	GAS METER	293	15.15	49.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040109	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,072.7619	
<b>Easting (M)</b>	212,603.1862	
<b>Elevation (M)*</b>	348.801	
<b>Northing (SFT)</b>	738,426.2197	
<b>Easting (SFT)</b>	697,515.6201	
<b>Elevation (SFT)*</b>	1,144.358	

  

<b>Convergence Angle</b>	-1	12	53.2222886
<b>Scale Factor</b>	1.000023775		
<b>Elevation Adjust. Factor</b>	0.9999452647		
<b>Combined Adjust. Factor</b>	0.9999690384		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	87	25.49	83.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040109A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,074.4985	
<b>Easting (M)</b>	212,096.2040	
<b>Elevation (M)*</b>	361.718	
<b>Northing (SFT)</b>	738,431.9172	
<b>Easting (SFT)</b>	695,852.2960	
<b>Elevation (SFT)*</b>	1,186.737	

  

<b>Convergence Angle</b>	-1	13	5.0508792
<b>Scale Factor</b>	1.000023756		
<b>Elevation Adjust. Factor</b>	0.9999432379		
<b>Combined Adjust. Factor</b>	0.9999669925		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	67	7.77	25.5
MK # 2	GUY WIRE	44	5.67	18.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 62B (NORTH 2ND STREET) AND STATE HIGHWAY 12 (EAST LOCUST STREET), IN ROGERS, GO EAST ON HIGHWAY 12 1.65 MILES TO THE MARK ON LEFT, 40.5 FEET NORTH OF CENTER OF HIGHWAY 12, EAST 23 FEET OF THE CENTERLINE OF PRAIRIE CREEK ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040109A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>Vertical Determined By:</b>	See Comments
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	36 20 38.4283392
<b>Longitude</b>	94 5 35.7577764
<b>Ellipsoid Height (M):</b>	333.564
<b>Geoid Height (M):</b>	-28.115

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040110	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,757.5100	
<b>Easting (M)</b>	209,733.4045	
<b>Elevation (M)*</b>	409.771	
<b>Northing (SFT)</b>	737,391.9307	
<b>Easting (SFT)</b>	688,100.3446	
<b>Elevation (SFT)*</b>	1,344.392	

  

<b>Convergence Angle</b>	-1	14	0.0146390
<b>Scale Factor</b>	1.000022991		
<b>Elevation Adjust. Factor</b>	0.9999356976		
<b>Combined Adjust. Factor</b>	0.9999586872		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	284	8.59	28.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040110A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,772.8675	
<b>Easting (M)</b>	209,209.3389	
<b>Elevation (M)*</b>	405.971	
<b>Northing (SFT)</b>	737,442.3161	
<b>Easting (SFT)</b>	686,380.9727	
<b>Elevation (SFT)*</b>	1,331.923	

  

<b>Convergence Angle</b>	-1	14	12.2480463
<b>Scale Factor</b>	1.000023000		
<b>Elevation Adjust. Factor</b>	0.9999362940		
<b>Combined Adjust. Factor</b>	0.9999592925		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 94, 71B, 12 EAST AND 62B (WALNUT STREET) IN ROGERS, GO EAST ON HIGHWAY 62B (WALNUT STREET) 0.3 MILES TO NORTH 4TH STREET, TURN LEFT (NORTH) AND GO 0.5 MILES TO WEST OLIVE STREET, TURN LEFT (WEST) AND GO SOUTH 0.3 MILES TO THE MARK ON LEFT IN SOUTH EAST CORNER OF INTERSECTION, 62.5 FEET EAST OF CENTER OF HIGHWAY 94 (NORTH 8TH STREET), 33.5 FEET SOUTH OF WEST OLIVE STREET, 20.2 FEET WEST OF THE CENTER LINE OF AN ASPHALT DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040110A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	255	2.19	7.2
MK # 2	ONE STORY BRICK FRAME	123	21.49	70.5
MK # 3	LIGHT POLE	205	2.83	9.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<p>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040111	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,611.9382	
<b>Easting (M)</b>	211,145.6516	
<b>Elevation (M)*</b>	415.715	
<b>Northing (SFT)</b>	746,756.8339	
<b>Easting (SFT)</b>	692,733.6920	
<b>Elevation (SFT)*</b>	1,363.893	

  

<b>Convergence Angle</b>	-1	13	28.4922985
<b>Scale Factor</b>	1.000029087		
<b>Elevation Adjust. Factor</b>	0.9999347650		
<b>Combined Adjust. Factor</b>	0.9999638501		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	37	18.53	60.8
MK # 2	FENCE CORNER	91	17.59	57.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 5px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 5px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 5px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Comments</b> </div> <div style="border: 1px solid black; padding: 5px;">             ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.           </div>
--	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 62,94 AND 12, IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT(EAST), CROSS THE RAIL ROAD TRACKS, TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE MARK ON RIGHT, EAST 26.5 FEET OF THE NEAREST RAIL, 28.2 FEET WEST OF CENTER OF THE STREET, WEST 50.0 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	040110A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040111A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 012153
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,210.0759	
<b>Easting (M)</b>	210,854.3807	
<b>Elevation (M)*</b>	414.767	
<b>Northing (SFT)</b>	745,438.3907	
<b>Easting (SFT)</b>	691,778.0807	
<b>Elevation (SFT)*</b>	1,360.781	

  

<b>Convergence Angle</b>	-1	13	35.0886947
<b>Scale Factor</b>	1.000028212		
<b>Elevation Adjust. Factor</b>	0.9999349138		
<b>Combined Adjust. Factor</b>	0.9999631240		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	18	14.02	46.0
<b>MK # 2</b>	COMBINATION POLE	353	27.03	88.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.
---	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAYS 62,94 AND 12, IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT AND CROSS THE RAIL ROAD TRACKS TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON LEFT, 24 FEET EAST OF CENTER OF THE STREET, WEST 1.50 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	040111
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040112	<b>Date Monumented</b> 7/29/2013	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> RDOCK	<b>Job Number:</b> 090347,090402
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	217,657.0774	0.0030			
<b>Easting (M)</b>	198,351.1776	0.0030			
<b>Elevation (M)*</b>	380.254				
<b>Northing (SFT)</b>	714,096.5948				
<b>Easting (SFT)</b>	650,757.1552				
<b>Elevation (SFT)*</b>	1,247.549				

  

<b>Convergence Angle</b>	-1	18	21.7617165
<b>Scale Factor</b>	1.000008391		
<b>Elevation Adjust. Factor</b>	0.9999403293		
<b>Combined Adjust. Factor</b>	0.9999487198		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	138	1.74	5.7
MK # 2	TELEPHONE RISER	96	6.49	21.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: SAL5	Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.
Ref Mon # 2: MOCA	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040112A	<b>Date Monumented</b> 7/29/2013	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> RDOCK	<b>Job Number:</b> 090347,090402
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	217,117.3805	0.0020			
<b>Easting (M)</b>	198,136.7856	0.0020			
<b>Elevation (M)*</b>	374.524				
<b>Northing (SFT)</b>	712,325.9392				
<b>Easting (SFT)</b>	650,053.7708				
<b>Elevation (SFT)*</b>	1,228.752				

  

<b>Convergence Angle</b>	-1	18	26.4717875
<b>Scale Factor</b>	1.000007363		
<b>Elevation Adjust. Factor</b>	0.9999412284		
<b>Combined Adjust. Factor</b>	0.9999485909		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	77	11.86	38.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: SAL5	Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note: Elevation from Digital levels used as a constraint in the final static adjustment.
Ref Mon # 2: MOCA	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040113	<b>Date Monumented</b> 7/24/2014	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> CR58	<b>Job Number:</b> BR0405
--------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	208,210.2117    0.0040
<b>Easting (M)</b>	189,673.9862    0.0040
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	683,103.0029
<b>Easting (SFT)</b>	622,288.7364
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	-1	21	38.7792107
<b>Scale Factor</b>	0.999991268		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER WELL	24	11.46	37.6
<b>MK # 2</b>	SERVICE POLE	313	16.15	53.0
<b>MK # 3</b>	30" CATALPA TREE	261	16.55	54.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> MOA2 <b>Ref Mon # 3</b> CTA1	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36    11    15.0732456
<b>Longitude</b>	94    20    18.6055188
<b>Ellipsoid Height (M):</b>	293.852    0.0080
<b>Geoid Height (M):</b>	-28.189    0.0080

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRIONGDALE, GO WEST ON 412 FOR 4.1 MILES TO OLD HIGHWAY 68 (COUNTY ROAD 58) ON THE RIGHT, TURN RIGHT AND GO 2.9 MILES TO THE MARK ON THE RIGHT, 33.7 FEET NORTHWEST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 040113" ON TOPO OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	720061
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040114	<b>Date Monumented</b> 11/18/2015	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 94	<b>Job Number:</b> O109D22,090431
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	233,086.0797	0.0020
<b>Easting (M)</b>	209,842.7256	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	764,716.5798	
<b>Easting (SFT)</b>	688,459.0089	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	14	1.6488421
<b>Scale Factor</b>	1.000041158		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	ARFY
<b>Ref Mon # 2</b>	ARHR
<b>Ref Mon # 3</b>	CTA1

  

Comments
S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #'s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.8 MILES TO THE MARK ON THE RIGHT, WEST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 39.9 FEET OF A 2 RAIL WOOD FENCE AND SOUTH 69.7 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	040114A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040114A	<b>Date Monumented</b> 11/18/2015	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 94	<b>Job Number:</b> O109D22,090431
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	233,752.9754	0.0020			
<b>Easting (M)</b>	209,956.8570	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	766,904.5535				
<b>Easting (SFT)</b>	688,833.4550				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	13	59.3190191
<b>Scale Factor</b>	1.000042693		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PIPE FENCE CORNER	319	26.90	88.3
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #'s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> CTA1	

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 12A	<b>Latitude</b> 36 25 18.4202076
<b>Longitude</b> 94 7 9.0181668	<b>Ellipsoid Height (M):</b> 320.411 0.0100
<b>Geoid Height (M):</b> -28.186 0.0100	

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.4 MILES TO THE MARK ON THE RIGHT, WEST 23.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 40 FEET OF THE CENTERLINE OF SUGAR CREEK ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040115	<b>Date Monumented</b> 12/29/2015	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 10D09, B191, 090434
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	226,715.1147	0.0030			
<b>Easting (M)</b>	180,514.0597	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	743,814.5055				
<b>Easting (SFT)</b>	592,236.5442				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	22.7427821
<b>Scale Factor</b>	1.000025671		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	210	58.20	190.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	
Ref Mon # 2: CTA1	
Ref Mon # 3: SAL5	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 21 8.0267256
<b>Longitude</b>	94 26 43.4893596
<b>Ellipsoid Height (M):</b>	331.667 0.0050
<b>Geoid Height (M):</b>	-28.122 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON STATE HIGHWAY 59 FOR 1.3 MILES TO THE MARK ON THE RIGHT, EAST 30.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040115A	<b>Date Monumented</b> 12/29/2015	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 10D09, B191, 090434
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	227,151.6008	0.0030			
<b>Easting (M)</b>	180,875.2377	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	745,246.5436				
<b>Easting (SFT)</b>	593,421.5090				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	14.5690010
<b>Scale Factor</b>	1.000026613		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	160	22.50	73.8
<b>MK # 2</b>	AHTD RIGHT OF WAY MARKER	51	55.90	183.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARFY"/> <b>Ref Mon # 2</b> <input type="text" value="CTA1"/> <b>Ref Mon # 3</b> <input type="text" value="SAL5"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 21 22.4734356
<b>Longitude</b>	94 26 29.4426276
<b>Ellipsoid Height (M):</b>	334.270 0.0050
<b>Geoid Height (M):</b>	-28.117 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON STATE HIGHWAY 59 FOR 1.65 MILES TO THE MARK ON THE RIGHT, EAST 22.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040116	<b>Date Monumented</b> 10/26/2016	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 43	<b>Job Number:</b> 090445
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	217,818.5214	0.0030	
<b>Easting (M)</b>	168,745.6638	0.0030	
<b>Elevation (M)*</b>	358.619		
<b>Northing (SFT)</b>	714,626.2656		
<b>Easting (SFT)</b>	553,626.3987		
<b>Elevation (SFT)*</b>	1,176.569		

  

<b>Convergence Angle</b>	-1	29	51.8652418
<b>Scale Factor</b>	1.000007328		
<b>Elevation Adjust. Factor</b>	0.9999437242		
<b>Combined Adjust. Factor</b>	0.9999510518		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N END OF GATE	92	23.00	75.5
MK # 2	CONC R/W	72	59.00	193.6
MK # 3	N END OF CUS	292	7.50	24.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.

  

<b>Location Description</b>	
FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.5MI TO STA ON L. 8' N OF CTR OF FIELD ENTRANCE. STA IS A 2 1/2" ALUM CAP STAMPED "040116 2016" SET BELLOW SURFACE.	

  

<b>AZ Mark Station</b>	040116A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040116A	<b>Date Monumented</b> 10/26/2016	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 43	<b>Job Number:</b> 090445
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	218,301.9447	0.0030	
<b>Easting (M)</b>	168,755.8094	0.0030	
<b>Elevation (M)*</b>	355.092		
<b>Northing (SFT)</b>	716,212.2969		
<b>Easting (SFT)</b>	553,659.6847		
<b>Elevation (SFT)*</b>	1,164.999		

  

<b>Convergence Angle</b>	-1	29	51.9233735
<b>Scale Factor</b>	1.000008241		
<b>Elevation Adjust. Factor</b>	0.9999442775		
<b>Combined Adjust. Factor</b>	0.9999525181		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MTL POST	191	38.00	124.7
MK # 2	FENCE COR	273	6.50	21.3
MK # 3	N END OF CUS	153	11.00	36.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.

  

<b>Location Description</b>	
FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.2MI TO STA ON R. 22' N OF CTR OF DW. STA IS A 2 1/2" ALUM CAP STAMPED "040116A 2016" SET BELOW SURFACE.	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 16 25.4520300
<b>Longitude</b>	94 34 26.0791428
<b>Ellipsoid Height (M):</b>	326.762 0.0070
<b>Geoid Height (M):</b>	-28.341 0.0070

  

<b>AZ Mark Station</b>	040116
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040117	<b>Date Monumented</b> 2/15/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> D HWY	<b>Job Number:</b> BR0406
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	207,475.1431	0.0030			
<b>Easting (M)</b>	184,324.6984	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	680,691.3653				
<b>Easting (SFT)</b>	604,738.6147				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	23	42.9059241
<b>Scale Factor</b>	0.999989848		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MKR	10	15.85	52.0
MK # 2	TB	60	18.99	62.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, ARFS	ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.
Ref Mon # 2 ARHR, CTA1	
Ref Mon # 3 OKTU, MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040117-2	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 12270, 090513, 012305, 09006
----------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	212,559.1586 0.0010
<b>Easting (M)</b>	199,468.4441 0.0010
<b>Elevation (M)*</b>	380.664
<b>Northing (SFT)</b>	697,371.1728
<b>Easting (SFT)</b>	654,422.7204
<b>Elevation (SFT)*</b>	1,248.896

  

<b>Convergence Angle</b>	-1 17 53.0273148
<b>Scale Factor</b>	0.999999101
<b>Elevation Adjust. Factor</b>	0.9999402649
<b>Combined Adjust. Factor</b>	0.9999393660

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1 ELECTRIC BOX	102	12.95	42.5
MK # 2			
MK # 3			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	DUPLICATED GPS POINT 040117 FROM JOB BR0406 SO RENAMED THIS ONE TO 040117-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117. *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 2.4 MILES TO THE MARK ON THE LEFT, 45' EAST OF THE EDGE OF THE PAVEMENT AND SOUTH 69.7' OF THE EDGE OF THE EXIT RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040117 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 13 43.5024768
<b>Longitude</b>	94 13 50.6484228
<b>Ellipsoid Height (M):</b>	352.536 0.0030
<b>Geoid Height (M):</b>	-28.121 0.0030

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040117A	<b>Date Monumented</b> 2/15/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> D HWY	<b>Job Number:</b> BR0406
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	207,582.4999	0.0030	
<b>Easting (M)</b>	183,778.1049	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	681,043.5851		
<b>Easting (SFT)</b>	602,945.3325		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	23	55.6916289
<b>Scale Factor</b>	0.999990002		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FE CORNER	178	1.77	5.8
MK # 2	NORTHEAST CORNER 1-S-F HOUSE	228	21.03	69.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, ARFS <b>Ref Mon # 2</b> ARHR, CTA1 <b>Ref Mon # 3</b> OKTU, MOA2	ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 10 50.1078108
<b>Longitude</b>	94 24 13.8910032
<b>Ellipsoid Height (M):</b>	277.952 0.0070
<b>Geoid Height (M):</b>	-28.231 0.0070

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND OLD HIGHWAY 68, EAST OF SILOAM SPRINGS, GO EAST ON OLD HIGHWAY 68 FOR 2.6 MILES TO THE MARK ON THE RIGHT, SOUTH 32' OF THE C/L OF OLD HIGHWAY 68 AND 29' EAST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "040117A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	040117
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040117A-2	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 12270, 090513, 012305, 09006
-----------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 213,014.2075	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 199,316.0088	<b>0.0010</b>	<b>Latitude</b> 36 13 58.1498400
<b>Elevation (M)*</b> 357.458		<b>Longitude</b> 94 13 57.1639980
<b>Northing (SFT)</b> 698,864.1124		<b>Ellipsoid Height (M):</b> 329.332 0.0030
<b>Easting (SFT)</b> 653,922.6055		<b>Geoid Height (M):</b> -28.122 0.0030
<b>Elevation (SFT)*</b> 1,172.761		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> -1 17 56.8187223		
<b>Scale Factor</b> 0.999999902		
<b>Elevation Adjust. Factor</b> 0.9999439063		
<b>Combined Adjust. Factor</b> 0.9999438083		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	353	9.17	30.1
<b>MK # 2</b>	UNDERGROUND CABLE MARKER	205		
<b>MK # 3</b>		15.76		

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> DUPLICATED GPS POINT 040117A FROM JOB BR0406 SO RENAMED THIS ONE TO 040117A-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117. *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040118	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090513
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	215,211.3486	0.0020	
<b>Easting (M)</b>	199,278.9826	0.0020	
<b>Elevation (M)*</b>	346.940		
<b>Northing (SFT)</b>	706,072.5662		
<b>Easting (SFT)</b>	653,801.1287		
<b>Elevation (SFT)*</b>	1,138.252		

  

<b>Convergence Angle</b>	-1	17	58.8425736
<b>Scale Factor</b>	1.000003871		
<b>Elevation Adjust. Factor</b>	0.9999455568		
<b>Combined Adjust. Factor</b>	0.9999494276		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	210	5.27	17.3
MK # 2	COMBINATION POLE	354	7.22	23.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2: CTA1	
Ref Mon # 3: MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040119	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090513, 090514
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	218,343.4923 0.0020
<b>Easting (M)</b>	199,863.5498 0.0020
<b>Elevation (M)*</b>	350.532
<b>Northing (SFT)</b>	716,348.6077
<b>Easting (SFT)</b>	655,718.9963
<b>Elevation (SFT)*</b>	1,150.037

  

<b>Convergence Angle</b>	-1	17	46.8724998
<b>Scale Factor</b>	1.000009763		
<b>Elevation Adjust. Factor</b>	0.9999449931		
<b>Combined Adjust. Factor</b>	0.9999547556		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	192	10.73	35.2
MK # 2	GUY POLE	181	13.11	43.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040119A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090513, 090514
---------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	218,866.2371	0.0020			
<b>Easting (M)</b>	199,840.4683	0.0020			
<b>Elevation (M)*</b>	350.464				
<b>Northing (SFT)</b>	718,063.6462				
<b>Easting (SFT)</b>	655,643.2697				
<b>Elevation (SFT)*</b>	1,149.816				

  

<b>Convergence Angle</b>	-1	17	47.6863376
<b>Scale Factor</b>	1.000010765		
<b>Elevation Adjust. Factor</b>	0.9999450037		
<b>Combined Adjust. Factor</b>	0.9999557681		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W MARKER	172	19.51	64.0
<b>MK # 2</b>	COMBINATION POLE	6	18.41	60.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 17 8.3429700
<b>Longitude</b>	94 13 41.4698952
<b>Ellipsoid Height (M):</b>	322.331 0.0040
<b>Geoid Height (M):</b>	-28.119 0.0040

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 1.8 MILES TO THE MARK ON THE RIGHT, 26.2' EAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040119A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040120	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090514
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 221,627.4878	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 200,029.9464	<b>0.0020</b>	<b>Latitude</b> 36 18 38.0405916
<b>Elevation (M)*</b> 387.588		<b>Longitude</b> 94 13 36.3812124
<b>Northing (SFT)</b> 727,122.8496		<b>Ellipsoid Height (M):</b> 359.441 0.0030
<b>Easting (SFT)</b> 656,264.9158		<b>Geoid Height (M):</b> -28.115 0.0030
<b>Elevation (SFT)*</b> 1,271.613		

  

<b>Convergence Angle</b> -1 17 44.7252375	<b>Scale Factor</b> 1.000016184	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999391785	<b>Combined Adjust. Factor</b> 0.9999553615	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 3.6 MILES TO THE MARK ON THE LEFT, 33.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040120 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	359	16.95	55.6
<b>MK # 2</b>	COMBINATION POLE W/TRANSFORMER	171	27.34	89.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040120A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 090514
---------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 222,037.6283	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 199,966.8257	<b>0.0020</b>	<b>Latitude</b> 36 18 51.2967240
<b>Elevation (M)*</b> 391.308		<b>Longitude</b> 94 13 39.2826288
<b>Northing (SFT)</b> 728,468.4522		<b>Ellipsoid Height (M):</b> 363.163 0.0030
<b>Easting (SFT)</b> 656,057.8273		<b>Geoid Height (M):</b> -28.114 0.0030
<b>Elevation (SFT)*</b> 1,283.815		

  

<b>Convergence Angle</b> -1 17 46.4135692	<b>Scale Factor</b> 1.000017001	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999385948	<b>Combined Adjust. Factor</b> 0.9999555948	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 3.9 MILES TO THE MARK ON THE LEFT, 38.2' WEST OF THE C/L OF THE HIGHWAY AND 26.2' NORTH OF THE EDGE OF THE PAVEMENT OF WINDMILL RD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040120A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	345	8.47	27.8	040120
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> ARFY</p> <p><b>Ref Mon # 2</b> CTA1</p> <p><b>Ref Mon # 3</b> MOA2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 &amp; S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040121	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> H ST.	<b>Job Number:</b> 012270, 090514
--------------------------	------------------------------------	-------------------------------	-------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	223,816.4005	0.0020
<b>Easting (M)</b>	200,664.6428	0.0020
<b>Elevation (M)*</b>	395.803	

  

<b>Northing (SFT)</b>	734,304.3073	
<b>Easting (SFT)</b>	658,347.2489	
<b>Elevation (SFT)*</b>	1,298.563	

  

<b>Convergence Angle</b>	-1	17	31.0758063
<b>Scale Factor</b>	1.000020638		
<b>Elevation Adjust. Factor</b>	0.9999378895		
<b>Combined Adjust. Factor</b>	0.9999585262		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE RIGHT, 45' NORTH OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SIGN "WELCOME TO BENTONVILLE"	280	22.86	75.0
<b>MK # 2</b>	SIGN "TRAIL OF 2 CITIES"	234	16.24	53.3
<b>MK # 3</b>	POWERPOLE W/2 GUYS	329	28.53	93.6

  

<b>AZ Mark Station</b>	040121A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ARFY
<b>Ref Mon # 2</b>	CTA1
<b>Ref Mon # 3</b>	MOA2
<p>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 &amp; S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040121A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> H ST.	<b>Job Number:</b> 012270, 090514
---------------------------	------------------------------------	-------------------------------	-------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	224,296.1007	0.0020	
<b>Easting (M)</b>	200,701.9906	0.0010	
<b>Elevation (M)*</b>	394.524		
<b>Northing (SFT)</b>	735,878.1237		
<b>Easting (SFT)</b>	658,469.7808		
<b>Elevation (SFT)*</b>	1,294.369		

  

<b>Convergence Angle</b>	-1	17	30.4569790
<b>Scale Factor</b>	1.000021625		
<b>Elevation Adjust. Factor</b>	0.9999380901		
<b>Combined Adjust. Factor</b>	0.9999597138		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	342	7.16	23.5
<b>MK # 2</b>	MANHOLE	250	4.57	15.0
<b>MK # 3</b>	LIGHT POLE	16	10.67	35.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 20 5.0860680
<b>Longitude</b>	94 13 11.8610544
<b>Ellipsoid Height (M):</b>	366.373 0.0030
<b>Geoid Height (M):</b>	-28.117 0.0030

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.5 MILES TO THE MARK ON THE LEFT, 38' EAST OF THE C/L OF H ST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040122	<b>Date Monumented</b> 3/19/2018	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> STULTZ	<b>Job Number:</b> EF7211
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	210,808.0252	0.0020	
<b>Easting (M)</b>	206,340.1091	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	691,625.9960		
<b>Easting (SFT)</b>	676,967.5079		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	15	12.0549998
<b>Scale Factor</b>	0.999996307		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	14	14.78	48.5
<b>MK # 2</b>	SS MANHOLE	202	11.37	37.3
<b>MK # 3</b>	CENTER OF GATE	325	4.72	15.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="ARHR"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ARFY"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="CTA1"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	36 12 51.6674232
<b>Longitude</b>	94 9 14.0157432
<b>Ellipsoid Height (M):</b>	355.468 0.0060
<b>Geoid Height (M):</b>	-28.079 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH STULTZ ROAD AND TURN LEFT (NORTH) AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, WEST 24' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040122A	<b>Date Monumented</b> 3/19/2018	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> P STATI	<b>Job Number:</b> EF7211
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	210,455.9148	0.0020	
<b>Easting (M)</b>	206,305.6233	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	690,470.7805		
<b>Easting (SFT)</b>	676,854.3658		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	15	12.6787689
<b>Scale Factor</b>	0.999995698		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAZORBACK GREENWAY MI MKR 16	206	11.98	39.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR Ref Mon # 2    ARFY Ref Mon # 3    CTA1	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	36 12 40.2220296
<b>Longitude</b>	94 9 15.0876972
<b>Ellipsoid Height (M):</b>	343.899 0.0060
<b>Geoid Height (M):</b>	-28.079 0.0060

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH PUMP STATION ROAD AND TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, WEST 274' OF THE C/L OF THE ROAD AND NORTH 50' OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040123	<b>Date Monumented</b> 3/18/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090238
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	227,181.9781	0.0030	
<b>Easting (M)</b>	192,490.1177	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	745,346.2065		
<b>Easting (SFT)</b>	631,527.9945		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	20	43.5863407
<b>Scale Factor</b>	1.000027273		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	80	17.98	59.0
<b>MK # 2</b>	SW COR 1-2-B HOUSE	342	28.65	94.0
<b>MK # 3</b>	SERVICE POLE	291	25.15	82.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 21 32.5535544
<b>Longitude</b>	94 18 43.7559696
<b>Ellipsoid Height (M):</b>	386.281 0.0110
<b>Geoid Height (M):</b>	-28.076 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO WEST ON HIGHWAY 102 1.55 MILES TO THE MARK ON THE RIGHT, NORTH 24' OF THE C/L OF THE HIGHWAY AND 101' WEST OF THE C/L OF KELLER ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040123" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040123A	<b>Date Monumented</b> 3/18/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090238
---------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	227,143.8891	0.0030			
<b>Easting (M)</b>	192,971.4722	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	745,221.2428				
<b>Easting (SFT)</b>	633,107.2384				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	20	32.3341068
<b>Scale Factor</b>	1.000027216		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	155	4.88	16.0
MK # 2	WATER VALVE	190	7.16	23.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040124	<b>Date Monumented</b> 3/18/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090238
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	227,086.9125 0.0030
<b>Easting (M)</b>	194,915.3426 0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	745,034.3121	
<b>Easting (SFT)</b>	639,484.7532	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	46.9469754
<b>Scale Factor</b>	1.000027191		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	185	6.88	22.6
MK # 2	CP W/LIGHT	71	7.62	25.0
MK # 3	END OF FENCE	343	21.48	70.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040124A	<b>Date Monumented</b> 3/18/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 102	<b>Job Number:</b> 090238
---------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	227,023.8512	0.0030			
<b>Easting (M)</b>	195,300.3765	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	744,827.4185				
<b>Easting (SFT)</b>	640,747.9852				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	19	37.9289017
<b>Scale Factor</b>	1.000027076		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CP W/GUY AND LIGHT	306	7.38	24.2
<b>MK # 2</b>	CP W/3 GUYS	81	24.38	80.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 21 29.5512264
<b>Longitude</b>	94 16 50.9229444
<b>Ellipsoid Height (M):</b>	350.596 0.0110
<b>Geoid Height (M):</b>	-28.096 0.0110

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO EAST ON HIGHWAY 102 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 31.5' OF THE BACK OF THE CURB. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040124A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040125	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	220,879.0567 0.0020
<b>Easting (M)</b>	179,984.0856 0.0020
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	724,667.3719
<b>Easting (SFT)</b>	590,497.7875
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	-1	25	31.7189778
<b>Scale Factor</b>	1.000013761		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	128	23.77	78.0
<b>MK # 2</b>	FENCE CORNER	346	28.96	95.0
<b>MK # 3</b>	18" RCP	214	9.45	31.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARRV, CTA1	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 17 58.3244268
<b>Longitude</b>	94 26 58.9150500
<b>Ellipsoid Height (M):</b>	383.863 0.0170
<b>Geoid Height (M):</b>	-28.142 0.0170

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.1 MILES TO THE MARK ON THE RIGHT, EAST 79' OF THE C/L OF THE HIGHWAY AND NORTH 79' OF AN PAVED ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040125A	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
---------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	221,259.3512	0.0020			
<b>Easting (M)</b>	179,907.9283	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	725,915.0547				
<b>Easting (SFT)</b>	590,247.9281				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	33.7152820
<b>Scale Factor</b>	1.000014506		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARFS	
Ref Mon # 2    ARHR	
Ref Mon # 3    ARRV, CTA1	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 18 10.5967692
<b>Longitude</b>	94 27 2.3457204
<b>Ellipsoid Height (M):</b>	389.173 0.0170
<b>Geoid Height (M):</b>	-28.140 0.0170

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.35 MILES TO THE MARK ON THE LEFT, WEST 25.5' OF THE C/L OF THE HIGHWAY AND SOUTH 36.5' OF Y CITY ROAD AND 62' EAST OF THE NEAREST RAILROAD RAIL THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040126	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	223,699.1597 0.0020
<b>Easting (M)</b>	179,448.2660 0.0020
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	733,919.6598
<b>Easting (SFT)</b>	588,739.8527
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	-1	25	45.8520712
<b>Scale Factor</b>	1.000019370		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.85 MILES TO THE MARK ON THE LEFT, EAST 37' OF THE C/L OF THE HGIHWAY AND SOUTH 50' OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/LIGHT AND TRANSFORMER	12	6.95	22.8	
MK # 2	SS MANHOLE	116	10.82	35.5	
MK # 3	END OF FENCE	33	6.19	20.3	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ARFS"/></p> <p>Ref Mon # 2 <input type="text" value="ARHR"/></p> <p>Ref Mon # 3 <input type="text" value="ARRV, CTA1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040126A	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
---------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	224,106.1616	0.0020			
<b>Easting (M)</b>	179,342.0445	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	735,254.9652				
<b>Easting (SFT)</b>	588,391.3577				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	48.5663535
<b>Scale Factor</b>	1.000020194		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TRANSFORMER	131	5.30	17.4
MK # 2	FIRE HYDRANT	43	10.49	34.4
MK # 3	POWER POLE W/LIGHT AND TRANSFORMER	0	7.38	24.2

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFS  Ref Mon # 2    ARHR  Ref Mon # 3    ARRV, CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.6 MILES TO THE MARK ON THE LEFT, EAST 33.4' OF THE C/L OF THE HIGHWAY AND SOUTH 11' OF THE C/L OF JERRY AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	040126A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040127	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 48	<b>Job Number:</b> 090558
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	227,617.2899	0.0020			
<b>Easting (M)</b>	181,298.1881	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	746,774.3919				
<b>Easting (SFT)</b>	594,809.1388				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	4.9699557
<b>Scale Factor</b>	1.000027625		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	227	20.12	66.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFS	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV, CTA1	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 21 37.9163736
<b>Longitude</b>	94 26 12.9465636
<b>Ellipsoid Height (M):</b>	327.361 0.0170
<b>Geoid Height (M):</b>	-28.113 0.0170

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 1.95 MILES TO BETHLEHEM (CR48) ROAD AND TURN RIGHT (EAST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, NORTH 20' OF THE C/L OF THE ROAD AND SOUTH 3.8' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040127" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040128	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	230,336.9163	0.0020			
<b>Easting (M)</b>	180,924.0032	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	755,697.0329				
<b>Easting (SFT)</b>	593,581.5005				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	15.2746593
<b>Scale Factor</b>	1.000033494		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	64	7.98	26.2
<b>MK # 2</b>	R/W MARKER	156	14.84	48.7
<b>MK # 3</b>	FENCE CORNER	89	10.24	33.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARRV, CTA1	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36    23    5.8170804
<b>Longitude</b>	94    26    30.6553092
<b>Ellipsoid Height (M):</b>	334.691    0.0170
<b>Geoid Height (M):</b>	-28.133    0.0170

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 3.7 MILES TO THE MARK ON THE LEFT, WEST 23' OF THE C/L OF THE HIGHWAY AND 35.3' SOUTH OF BETHEL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040128" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040128A	<b>Date Monumented</b> 5/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
---------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	230,832.2645	0.0020			
<b>Easting (M)</b>	180,960.7538	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	757,322.1878				
<b>Easting (SFT)</b>	593,702.0731				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	14.7036508
<b>Scale Factor</b>	1.000034588		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	357	1.43	4.7
<b>MK # 2</b>	POWER POLE W/TRANSFORMER	187	12.19	40.0
<b>MK # 3</b>	NE CORNER 1-S-B BLDING	259	33.53	110.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARRV, CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040129	<b>Date Monumented</b> 7/24/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	234,890.2704	0.0030			
<b>Easting (M)</b>	180,018.2315	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	770,635.8288				
<b>Easting (SFT)</b>	590,609.8145				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	25	39.0634256
<b>Scale Factor</b>	1.000043712		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	41.5	12.62	41.4
MK # 2	NW CORNER DOLLAR STORE	82.5	25.15	82.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV, CTA1</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARHR	Ref Mon # 3	ARRV, CTA1	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	ARFS						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARRV, CTA1						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 25 32.7563076
<b>Longitude</b>	94 27 11.5365636
<b>Ellipsoid Height (M):</b>	354.179 0.0060
<b>Geoid Height (M):</b>	-28.190 0.0060

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.1 MILES TO THE MARK ON THE RIGHT, EAST 28' OF THE C/L OF THE HIGHWAY, 57.4' SOUTH OF THE C/L OF DETROIT ST NE AND 38.7' NORTH OF THE C/L OF THE DRIVEWAY TO THE DOLLAR GENERAL STORE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040129A	<b>Date Monumented</b> 7/24/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090558
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	235,348.3668	0.0040	
<b>Easting (M)</b>	179,850.0038	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	772,138.7667		
<b>Easting (SFT)</b>	590,057.8875		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	25	43.2586129
<b>Scale Factor</b>	1.000044764		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATSON HEADSTONE	226	7.68	25.2
<b>MK # 2</b>	R/W MARKER	342	9.75	32.0
<b>MK # 3</b>	POWER POLE	152	10.48	34.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARRV, CTA1	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12B

**Latitude**    36    25    47.4766248

**Longitude**    94    27    18.7460388

**Ellipsoid Height (M):**    348.047    0.0070

**Geoid Height (M):**    -28.199    0.0070

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.4 MILES TO THE MARK ON THE LEFT, WEST 42 ' OF THE C/L OF THE HIGHWAY, THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040130	<b>Date Monumented</b> 11/13/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090069, AIRBORNE 2020
--------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	216,054.8650 0.0020
<b>Easting (M)</b>	194,864.4268 0.0020
<b>Elevation (M)*</b>	367.018
<b>Northing (SFT)</b>	708,840.0029
<b>Easting (SFT)</b>	639,317.7069
<b>Elevation (SFT)*</b>	1,204.125

  

<b>Convergence Angle</b>	-1 19 42.1659691
<b>Scale Factor</b>	1.000005239
<b>Elevation Adjust. Factor</b>	0.9999424062
<b>Combined Adjust. Factor</b>	0.9999476449

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1	POWER POLE	330	26.91    88.3
MK # 2	FENCE CORNER	355	29.55    96.9
MK # 3	FENCE CORNER	78	1.52    5.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD GO FOR 0.15 MILES TO THE MARK ON THE RIGHT, 11.4' EAST OF THE C/L OF THE ROAD AND 2.6' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 15 33.4607472
<b>Longitude</b>	94 16 58.2043908
<b>Ellipsoid Height (M):</b>	338.836 0.0070
<b>Geoid Height (M):</b>	-28.131 0.0070

  

<b>AZ Mark Station</b>	040130A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040130A	<b>Date Monumented</b> 11/13/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090069, AIRBORNE 2020
---------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	216,410.9652    0.0020
<b>Easting (M)</b>	194,873.8279    0.0010
<b>Elevation (M)*</b>	375.089

  

<b>Northing (SFT)</b>	710,008.3083	
<b>Easting (SFT)</b>	639,348.5504	
<b>Elevation (SFT)*</b>	1,230.606	

  

<b>Convergence Angle</b>	-1	19	42.1393164
<b>Scale Factor</b>	1.000005901		
<b>Elevation Adjust. Factor</b>	0.9999411397		
<b>Combined Adjust. Factor</b>	0.9999470404		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD AND GO FOR 0.35 MILES TO THE MARK ON THE LEFT, 13.5' WEST OF THE C/L OF THE ROAD AND 28.3' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE T INTERSECTION	125	11.06	36.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	040130
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040131	<b>Date Monumented</b> 11/13/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090069, AIRBORNE 2020
--------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	213,132.6825	0.0020			
<b>Easting (M)</b>	196,736.3113	0.0010			
<b>Elevation (M)*</b>	333.217				
<b>Northing (SFT)</b>	699,252.8092				
<b>Easting (SFT)</b>	645,459.0480				
<b>Elevation (SFT)*</b>	1,093.228				

  

<b>Convergence Angle</b>	-1	18	56.9794037
<b>Scale Factor</b>	1.000000008		
<b>Elevation Adjust. Factor</b>	0.9999477102		
<b>Combined Adjust. Factor</b>	0.9999477182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 FOR 1.45 MILES TO WAGER DR AND TURN RIGHT (WEST) ON SAID ROAD AND GO 1.5 MILES TO THE MARK ON RIGHT, 20' NORTH OF THE C/L OF THE ROAD AND 3' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040131" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	93	31.70	104.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    CTA1</p> <p>Ref Mon # 3    MOA2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040131A	<b>Date Monumented</b> 11/13/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090069, AIRBORNE 2020
---------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	213,412.6601 0.0020
<b>Easting (M)</b>	197,141.9256 0.0020
<b>Elevation (M)*</b>	332.335
<b>Northing (SFT)</b>	700,171.3690
<b>Easting (SFT)</b>	646,789.8009
<b>Elevation (SFT)*</b>	1,090.337

  

<b>Convergence Angle</b>	-1 18 47.6795619
<b>Scale Factor</b>	1.000000525
<b>Elevation Adjust. Factor</b>	0.9999478484
<b>Combined Adjust. Factor</b>	0.9999483734

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 FOR 1.45 MILES TO WAGER DR AND TURN RIGHT (WEST) ON SAID ROAD AND GO 1.2 MILES TO THE MARK ON THE RIGHT, 68' NORTHWEST OF THE C/L OF THE ROAD AND 85' NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040131A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	353	8.23	27.0
MK # 2	TELEPHONE BOX	63	14.94	49.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input type="text" value="ARFY"/></p> <p>Ref Mon # 2 <input type="text" value="CTA1"/></p> <p>Ref Mon # 3 <input type="text" value="MOA2"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040132	<b>Date Monumented</b> 11/19/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> ENHOEF	<b>Job Number:</b> CB0401
--------------------------	--------------------------------------	-------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	217,691.5699	0.0030
<b>Easting (M)</b>	182,296.7148	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	714,209.7589	
<b>Easting (SFT)</b>	598,085.1385	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	35.9711898
<b>Scale Factor</b>	1.000007737		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF GATE WEST OF RD.	146	28.32	92.9
<b>MK # 2</b>	HACKBERRY W/ T POST IN IT	326	13.66	44.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 16 16.8022848
<b>Longitude</b>	94 25 23.1118680
<b>Ellipsoid Height (M):</b>	348.280 0.0110
<b>Geoid Height (M):</b>	-28.195 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEF ROAD (349) AND GO 0.7 MILES TO THE MARK ON THE LEFT, WEST 13.5' OF THE C/L OF THE GRAVEL ROAD AND EAST OF A WITNESS POST 1.8'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20 19 040132" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040132A	<b>Date Monumented</b> 11/19/2019	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> ENHOEF	<b>Job Number:</b> CB0401
---------------------------	--------------------------------------	-------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	218,055.1090	0.0030	
<b>Easting (M)</b>	182,129.8804	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	715,402.4701		
<b>Easting (SFT)</b>	597,537.7826		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	24	40.0682487
<b>Scale Factor</b>	1.000008416		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEF ROAD (349) AND GO 1.0 MILES TO THE MARK ON THE RIGHT, EAST 14.2' OF THE C/L OF THE GRAVEL ROAD AND WEST OF A WITNESS POST 2.2'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20' 19 040132A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040133	<b>Date Monumented</b> 9/29/2020	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> CR 34	<b>Job Number:</b> 090580
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	239,066.4593	0.0030	
<b>Easting (M)</b>	186,836.6622	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	784,337.2086		
<b>Easting (SFT)</b>	612,979.9492		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	23	2.1948981
<b>Scale Factor</b>	1.000053988		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF BRIDGE	285	9.14	30.0
MK # 2	DROP INLET	6	2.23	7.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFS Ref Mon # 2    ARFY Ref Mon # 3    MOA2, MOCS	<b>Comments</b> STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34
---	--

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279, IN NHIWASSE, GO SOUTH ON HIGHWAY 279 0.5 MILES TO HIWASSE ROAD AND TURN RIGHT AND GO 0.9 MILES TO HIGHLANDS BLVD AND TURN LEFT AND GO 0.8 MILES TO ROCKY DELL HOLLOW ROAD AND TURN LEFT AND GO 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE ROAD 31.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040133 2020" ON TOPO OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>AZ Mark Station</b>	040133A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040133A	<b>Date Monumented</b> 9/29/2020	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> RTSCHY	<b>Job Number:</b> 090580
---------------------------	-------------------------------------	-------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	238,649.0776	0.0030	
<b>Easting (M)</b>	186,739.0411	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	782,967.8488		
<b>Easting (SFT)</b>	612,659.6707		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	23	4.2399909
<b>Scale Factor</b>	1.000052975		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279, IN NHIWASSE, GO SOUTH ON HIGHWAY 279 0.5 MILES TO HIWASSE ROAD AND TURN RIGHT AND GO 0.9 MILES TO HIGHLANDS BLVD AND TURN LEFT AND GO 0.8 MILES TO ROCKY DELL HOLLOW ROAD AND TURN LEFT AND GO 0.5 MILES TO A STOP SIGN AND TURN LEFT AND GO 0.1 MILES TO BERTSCHY LN AND TURN LEFT AND GO 0.2 MILES TO THE MARK ON THE LEFT. EAST OF THE C/L OF THE ROAD 80.7' AND WEST 2.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040133A 2020" ON TOPO OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> MOA2, MOCS	STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040134	<b>Date Monumented</b> 10/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 12	<b>Job Number:</b> 09X025
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	217,507.8886	0.0030			
<b>Easting (M)</b>	174,734.0570	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	713,607.1312				
<b>Easting (SFT)</b>	573,273.3187				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	27	32.1182098
<b>Scale Factor</b>	1.000007035		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/6 GUYS	359	6.04	19.8
<b>MK # 2</b>	TELEPHONE BOX	333	5.94	19.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> MOA2 OKTU	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 16 4.7030124
<b>Longitude</b>	94 30 25.8224436
<b>Ellipsoid Height (M):</b>	338.736 0.0140
<b>Geoid Height (M):</b>	-28.296 0.0140

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 20.1' OF THE C/L OF THE HIGHWAY AND ACROSS THE ROAD FROM BETTY BAKER ROAD. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040134A	<b>Date Monumented</b> 10/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> BENTON	<b>Route</b> 12	<b>Job Number:</b> 09X025
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	217,530.8338 0.0030
<b>Easting (M)</b>	174,290.6757 0.0040
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	713,682.4106	
<b>Easting (SFT)</b>	571,818.6585	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	27	42.4648939
<b>Scale Factor</b>	1.000007057		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 28.9" OF THE C/L OF THE HIGHWAY, 49.2' WEST OF THE C/L OF A GRAVEL DRIVEWAY AND 62' EAST OF THE C/L OF A ASPH DRIVEWAY.. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY POLE	273	9.02	29.6	
MK # 2					
MK # 3					

  

<b>AZ Mark Station</b>	040134
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> MOA2 OKMU	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050001	<b>Date Monumented</b> 10/17/1990	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 62	<b>Job Number:</b> 90219,R90017,R90104,09020
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,342.8260		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 283,808.2330		<b>Latitude</b> 36 17 40.0790688
<b>Elevation (M)*</b> 347.367		<b>Longitude</b> 93 17 36.6810468
<b>Northing (SFT)</b> 716,346.4216		<b>Ellipsoid Height (M):</b> 319.200
<b>Easting (SFT)</b> 931,127.5111		<b>Geoid Height (M):</b> -28.167
<b>Elevation (SFT)*</b> 1,139.653		

  

<b>Convergence Angle</b> 0 45 9.7186407	<b>Scale Factor</b> 1.000012660	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.80 METERS EAST OF THE CENTER OF
<b>Elevation Adjust. Factor</b> 0.9999454898	<b>Combined Adjust. Factor</b> 0.9999581491	

  

<b>SUPERCEDED CONTROL</b>				
<b>Horizontal Datum</b> NAD 83 (1986)	<b>Latitude</b> 36 17 40.0938072	<b>Longitude</b> 93 17 36.6781776	<b>Ellipsoid Height:</b> 318.371	
<b>Grid Northing (Meters)</b> 218,343.2793	<b>Grid Easting (Meters)</b> 283,808.3105			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	268	12.15	39.9
<b>MK # 2</b>	TELEPHONE POLE	331	37.00	121.4
<b>MK # 3</b>	GUY POLE	66	7.70	25.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> CNWM <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> 080031, 080031A	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050001A	<b>Date Monumented</b> 4/21/1997	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 62	<b>Job Number:</b> 090219,R90104,090202
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,387.1910		<b>Latitude</b> 36 17 41.6539500
<b>Easting (M)</b> 284,127.0710		<b>Longitude</b> 93 17 23.9275572
<b>Elevation (M)*</b> 346.688		<b>Ellipsoid Height (M):</b> 318.519
<b>Northing (SFT)</b> 716,491.9758		<b>Geoid Height (M):</b> -28.169
<b>Easting (SFT)</b> 932,173.5654		
<b>Elevation (SFT)*</b> 1,137.426		

  

<b>Convergence Angle</b> 0 45 2.2973962	<b>Scale Factor</b> 1.000012755	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999455963	<b>Combined Adjust. Factor</b> 0.9999583506	TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF DENTON STREET AND THE STATION ON THE LEFT. THE STATION IS 23
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> NAD 83 (1986)		
<b>Latitude</b> 36 17 41.6688468		
<b>Longitude</b> 93 17 23.9247024		
<b>Ellipsoid Height:</b> 317.683		
<b>Grid Northing (Meters)</b> 218,387.6492		
<b>Grid Easting (Meters)</b> 284,127.1483		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FLAG POLE	24	19.39	63.6
<b>MK # 2</b>	FIRE HYDRANT	180	30.21	99.1
<b>MK # 3</b>	1.00 METER ELM	70	25.00	82.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> CNWM <b>Ref Mon # 3</b> 080031, 080031A	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050002	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	218,313.9700	
<b>Easting (M)</b>	283,615.7360	
<b>Elevation (M)*</b>	349.414	
<b>Northing (SFT)</b>	716,251.7499	
<b>Easting (SFT)</b>	930,495.9605	
<b>Elevation (SFT)*</b>	1,146.369	

  

<b>Convergence Angle</b>	0	45	14.1985080
<b>Scale Factor</b>	1.000012599		
<b>Elevation Adjust. Factor</b>	0.9999451686		
<b>Combined Adjust. Factor</b>	0.9999577669		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SW FACE OF POLE	50	10.50	34.4
<b>MK # 2</b>	REFLECTOR POST	145	13.46	44.1
<b>MK # 3</b>	60D IN E FACE OF EAST MOST GUARD POST	275	22.21	72.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	NONE
<b>Ref Mon # 2</b>	NONE
<b>Ref Mon # 3</b>	NONE

  

--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050003A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
---------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,380.5200		<b>Latitude</b> 36 17 41.3409516
<b>Easting (M)</b> 283,900.0230		<b>Longitude</b> 93 17 33.0225792
<b>Elevation (M)*</b> 346.582		<b>Ellipsoid Height (M):</b> 317.619
<b>Northing (SFT)</b> 716,470.0894		<b>Geoid Height (M):</b> -28.963
<b>Easting (SFT)</b> 931,428.6588		
<b>Elevation (SFT)*</b> 1,137.078		

  

<b>Convergence Angle</b>	0	45	7.5897816
<b>Scale Factor</b>	1.000012736		
<b>Elevation Adjust. Factor</b>	0.9999456129		
<b>Combined Adjust. Factor</b>	0.9999583482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW CORNER OF BUILDING	65	17.74	58.2
<b>MK # 2</b>	60D NAIL IN POLE	225	17.56	57.6
<b>MK # 3</b>	60D NAIL IN POLE	165	22.39	73.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050004	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,128.1231		<b>Latitude</b> 36 17 33.7409124
<b>Easting (M)</b> 285,288.2360		<b>Longitude</b> 93 16 37.2612576
<b>Elevation (M)*</b> 351.462		<b>Ellipsoid Height (M):</b> 322.493
		<b>Geoid Height (M):</b> -28.969

  

<b>Northing (SFT)</b> 715,642.0172		<b>Location Description</b>
<b>Easting (SFT)</b> 935,983.1543		MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 36"x 3/4" REBAR APPROXIMATELY 10' NORTH OF NORTH EDGE OF PAVEMENT APPROX 1.1 MILES EAST OF JUNCTION HIGHWAY 412 AND HIGHWAY 62 IN ALPENA.
<b>Elevation (SFT)*</b> 1,153.088		
<b>Convergence Angle</b> 0 44 35.1423172		
<b>Scale Factor</b> 1.000012280		
<b>Elevation Adjust. Factor</b> 0.9999448472		
<b>Combined Adjust. Factor</b> 0.9999571265		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	60D NAIL IN TOP OF BRACE POST	65		34.14	112.0
<b>MK # 2</b>	AHTD R/W MARKER	350		12.62	41.4
<b>MK # 3</b>	PK-SHINER	210		4.37	14.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050005A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
---------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,061.5980		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 284,773.6560		<b>Latitude</b> 36 17 31.3658664
<b>Elevation (M)*</b> 345.437		<b>Longitude</b> 93 16 57.8468316
<b>Northing (SFT)</b> 715,423.7594		<b>Ellipsoid Height (M):</b> 316.472
<b>Easting (SFT)</b> 934,294.9031		<b>Geoid Height (M):</b> -28.965
<b>Elevation (SFT)*</b> 1,133.321		

  

<b>Convergence Angle</b> 0 44 47.1210447	<b>Location Description</b> MONUMENT IS AN AHTD ALUMINUM CAP BENCHMARK ON THE N.W. CORNER OF A BRIDGE EAST OF ALPENA, CENTER PUNCHED AND STAMPED "050005A".
<b>Scale Factor</b> 1.000012138	
<b>Elevation Adjust. Factor</b> 0.9999457926	
<b>Combined Adjust. Factor</b> 0.9999579300	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					050004
MK # 2	NONE					83 22 48.1
MK # 3	NONE					82 38 01

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050006	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	218,222.7651	
<b>Easting (M)</b>	287,751.2880	
<b>Elevation (M)*</b>	383.972	
<b>Northing (SFT)</b>	715,952.5218	
<b>Easting (SFT)</b>	944,064.0174	
<b>Elevation (SFT)*</b>	1,259.748	

  

<b>Convergence Angle</b>	0	43	37.7368156
<b>Scale Factor</b>	1.000012526		
<b>Elevation Adjust. Factor</b>	0.9999397459		
<b>Combined Adjust. Factor</b>	0.9999522711		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN EAST FACE OF POLE	270	24.11	79.1
<b>MK # 2</b>	ORANGE "T" POST	355	3.82	12.5
<b>MK # 3</b>	PK SHINER	190	3.12	10.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE  <b>Ref Mon # 2</b> NONE  <b>Ref Mon # 3</b> NONE	<b>Comments</b>          
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050007A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
---------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,265.5591		<b>Latitude</b> 36 17 39.3428724
<b>Easting (M)</b> 288,039.1350		<b>Longitude</b> 93 14 47.0961276
<b>Elevation (M)*</b> 390.574		<b>Ellipsoid Height (M):</b> 361.585
<b>Northing (SFT)</b> 716,092.9218		<b>Geoid Height (M):</b> -28.987
<b>Easting (SFT)</b> 945,008.3954		
<b>Elevation (SFT)*</b> 1,281.408		

  

<b>Convergence Angle</b>	0	43	31.0373241
<b>Scale Factor</b>	1.000012616		
<b>Elevation Adjust. Factor</b>	0.9999387100		
<b>Combined Adjust. Factor</b>	0.9999513252		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN EAST FACE OF POLE	271	22.72	74.5
<b>MK # 2</b>	60D NAIL AT TOP OF CORNER POST	350	7.17	23.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050008	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Highway Engineering	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,905.7229		<b>Latitude</b> 36 17 28.4864496
<b>Easting (M)</b> 290,045.6640		<b>Longitude</b> 93 13 26.5088352
<b>Elevation (M)*</b> 436.044		<b>Ellipsoid Height (M):</b> 407.049
		<b>Geoid Height (M):</b> -28.995

  

<b>Northing (SFT)</b> 714,912.3592		
<b>Easting (SFT)</b> 951,591.4826		
<b>Elevation (SFT)*</b> 1,430.588		

  

<b>Convergence Angle</b> 0 42 44.1436489		
<b>Scale Factor</b> 1.000011965		
<b>Elevation Adjust. Factor</b> 0.9999315752		
<b>Combined Adjust. Factor</b> 0.9999435393		

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

**Location Description**

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	PK SHINER	0	4.91	16.1		050009A
MK # 2	60D NAIL IN 4" WOOD FENCE POST		3.69	12.1		84 13 22.1
MK # 3	60D NAIL IN 4" WOOD FENCE POST		4.84	15.9		83 30 38.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: NONE</p> <p>Ref Mon # 2: NONE</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050009A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
---------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 217,966.5710		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,580.5910		<b>Latitude</b> 36 17 30.6755664
<b>Elevation (M)*</b> 448.614		<b>Longitude</b> 93 13 5.1035592
<b>Northing (SFT)</b> 715,111.9917		<b>Ellipsoid Height (M):</b> 419.615
<b>Easting (SFT)</b> 953,346.4890		<b>Geoid Height (M):</b> -28.999
<b>Elevation (SFT)*</b> 1,471.828		

  

<b>Convergence Angle</b> 0 42 31.6879375	<b>Location Description</b> MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN THE NORTH R/W APPROX 2.25 MILES WEST OF JCT HIGHWAY 62 AND HIGHWAY 65 NE OF YELLOW FRAME HOUSE AND 62 FRUIT STAND.
<b>Scale Factor</b> 1.000012096	
<b>Elevation Adjust. Factor</b> 0.9999296028	
<b>Combined Adjust. Factor</b> 0.9999416979	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN POWER POLE	280	17.91	58.7
MK # 2	PK-SHINER ON NORTH SHOULDER	180	4.01	13.1
MK # 3	TELEPHONE BOX	65	19.97	65.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050010	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	218,012.4770	
<b>Easting (M)</b>	293,445.2240	
<b>Elevation (M)*</b>	372.816	
<b>Northing (SFT)</b>	715,262.6016	
<b>Easting (SFT)</b>	962,744.8724	
<b>Elevation (SFT)*</b>	1,223.147	

  

<b>Convergence Angle</b>	0	41	24.9034281
<b>Scale Factor</b>	1.000012254		
<b>Elevation Adjust. Factor</b>	0.9999414964		
<b>Combined Adjust. Factor</b>	0.9999537497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PK NAIL-SHINER ON SOUTH SHOULDER	330	9.04	29.6
<b>MK # 2</b>	60D NAIL IN POLE WITH TRANSFORMER	230	40.75	133.7
<b>MK # 3</b>	"T" POST AT N END OF GATE AT FC COR	90	2.93	9.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 2</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 3</b> <input type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050011A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 9936,009947
---------------------------	------------------------------------	--	------------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,364.0750		<b>Latitude</b> 36 17 44.8678176
<b>Easting (M)</b> 293,861.9950		<b>Longitude</b> 93 10 53.8016592
<b>Elevation (M)*</b> 358.469		<b>Ellipsoid Height (M):</b> 329.450
		<b>Geoid Height (M):</b> -29.021

  

<b>Northing (SFT)</b> 716,416.1361	<b>Easting (SFT)</b> 964,112.2286	<b>Location Description</b>
<b>Elevation (SFT)*</b> 1,176.077		MON. IS AHTD 2 1/2" ALUMINUM CAP ON 36"X 3/4" REBAR SET IN CONCRETE POST TO REACH FROM "Y" INT. E. OF GIFT SHOP, GO EAST ON GR. RD. ACROSS CREEK FOR 0.05 MILES TO BRIDGE HOUSE, TURN RIGHT @ DRIVEWAY, GO AROUND BACK OF HOUSE TO GATE @ SM. LOT, GO THRU GATE & TURN SOUTH THRU ANOTHER GATE, FOLLOW TRACK ROAD 0.2 MILES TO STA. ON RIGHT
<b>Convergence Angle</b> 0 41 15.2834763		
<b>Scale Factor</b> 1.000012949		
<b>Elevation Adjust. Factor</b> 0.9999437477		
<b>Combined Adjust. Factor</b> 0.9999566960		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN SOUTHWEST FACE OF 14" OAK	45 00 00	17.86	58.6	<b>AZ Mark Station</b> 050010
<b>MK # 2</b>	60D NAIL IN NORTHWEST FACE OF 6" OAK	140	15.63	51.3	<b>Geodetic Azimuth</b> 230 32 09 3
<b>MK # 3</b>	60D IN NORTHWEST MOST POST OF BEAR CREEK SIGN	180	38.72	127.0	<b>Grid Azimuth</b> 229 50 54

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> THOMASON <b>Ref Mon # 3</b> 050009A & 050010	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050012	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 0098, Mobile LiDAR-CLS, 090
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,753.3376	
<b>Easting (M)</b>	311,314.4363	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	661,919.0751	
<b>Easting (SFT)</b>	1,021,370.7798	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	24.4215265
<b>Scale Factor</b>	0.999984220		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	8	52.2350628
<b>Longitude</b>	92	59	7.7277408
<b>Ellipsoid Height:</b>	304.411		
<b>Grid Northing (Meters)</b>	201,753.6700		
<b>Grid Easting (Meters)</b>	311,314.5190		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	150	21.98	72.1
<b>MK # 2</b>	METAL PIPE FENCE POST	326	27.86	91.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid96

**Latitude** 36 8 52.2242520

**Longitude** 92 59 7.7309160

**Ellipsoid Height (M):** 305.351

**Geoid Height (M):** -28.223

  

**Location Description**

TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE RIGHT AT A PAVED PULL OFF. 17.45 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.74 METERS NORTHEAST OF A WITNESS POST SET NEAR A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	050012A
<b>Geodetic Azimuth</b>	328 49 03.97589
<b>Grid Azimuth</b>	329 23 28.36283

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050012 - ADS	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 220,126.0510		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 292,277.3890		<b>Latitude</b> 36 18 41.4046008
<b>Elevation (M)*</b> 414.501		<b>Longitude</b> 93 11 58.1635140
<b>Northing (SFT)</b> 722,196.8857		<b>Ellipsoid Height (M):</b> 385.472
<b>Easting (SFT)</b> 958,913.4004		<b>Geoid Height (M):</b> -29.029
<b>Elevation (SFT)*</b> 1,359.909		

  

<b>Convergence Angle</b> 0 41 52.7355835	<b>Scale Factor</b> 1.000016391	<b>Location Description</b> MONUMENT IS AHTD CAP ATOP 36" DEEP CONCRETE POST ON EAST SIDE OF US HIGHWAY 65 OPPOSITE GUARDRAIL AND ON WEST SIDE OF AUTO SALVAGE YARD. STATION IS APPROX. 200' SOUTH OF INTERSECTION OF US HWY. 65 AND BOONE COUNTY ROAD 13 IN SE 1/4 OF SECTION 10, T. 19N, R. 21W.
<b>Elevation Adjust. Factor</b> 0.9999349555	<b>Combined Adjust. Factor</b> 0.9999513454	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CENTER OF CATCH BASIN		5.08	16.7	050013A
MK # 2	60D IN SOUTH FACE OF UTILITY POLE		7.96	26.1	324 06 28.7356
MK # 3	TO EDGE OF US HWY. 65		3.33	10.9	323 24 36.00000

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	<b>Comments</b>    
--	---------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050012A	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 0098, Mobile LiDAR-CLS, 090
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	202,094.0880	
<b>Easting (M)</b>	311,112.8380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	663,037.0204	
<b>Easting (SFT)</b>	1,020,709.3693	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	29.1935859
<b>Scale Factor</b>	0.999984745		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	9	3.2243328
<b>Longitude</b>	92	59	15.9282420
<b>Ellipsoid Height:</b>	299.757		
<b>Grid Northing (Meters)</b>	202,094.4209		
<b>Grid Easting (Meters)</b>	311,112.9290		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL PIPE FENCE POST	138	28.04	92.0
<b>MK # 2</b>	METAL PIPE FENCE POST	320	40.80	133.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid96

**Latitude** 36 9 3.2135040

**Longitude** 92 59 15.9317520

**Ellipsoid Height (M):** 300.700

**Geoid Height (M):** -28.221

  

**Location Description**

TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.32 KM. (0.20 MI.) TO THE STATION ON THE LEFT. 19.20 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 0.90 METERS SOUTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050013A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 220,695.8850		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,854.3500		<b>Latitude</b> 36 18 59.7223512
<b>Elevation (M)*</b> 422.456		<b>Longitude</b> 93 12 15.3991116
<b>Northing (SFT)</b> 724,066.4160		<b>Ellipsoid Height (M):</b> 393.425
<b>Easting (SFT)</b> 957,525.4800		<b>Geoid Height (M):</b> -29.032
<b>Elevation (SFT)*</b> 1,386.008		

  

<b>Convergence Angle</b> 0 42 2.7649627	<b>Scale Factor</b> 1.000017523	<b>Location Description</b> MONUMENT IS AHTD CAP ATOP 36" DEEP CONCRETE POST EAST OF US HWY. 65 AND W OF RIDGEWAY CHURCH OF CHRIST APPROX. 300' SOUTH EAST OF RIDGEWAY SCHOOL.
<b>Elevation Adjust. Factor</b> 0.9999337073	<b>Combined Adjust. Factor</b> 0.9999512291	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO SW CORNER OF CHURCH		29.95	98.3	050012
MK # 2	60D IN WEST FACE OF POWER POLE		5.62	18.4	144 06 38.765
MK # 3	60D NAIL IN LEFT LANE ENDS SIGN POLE		52.24	171.4	173 24 36.000

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	<b>Comments</b>    
--	---------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050014	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 222,787.0441		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 292,107.6420		<b>Latitude</b> 36 20 7.6590816
<b>Elevation (M)*</b> 417.223		<b>Longitude</b> 93 12 6.2691300
<b>Northing (SFT)</b> 730,927.1605		<b>Ellipsoid Height (M):</b> 388.169
<b>Easting (SFT)</b> 958,356.4888		<b>Geoid Height (M):</b> -29.054
<b>Elevation (SFT)*</b> 1,368.839		

  

<b>Convergence Angle</b> 0 41 57.4522344	<b>Scale Factor</b> 1.000021789	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST ON EAST SIDE OF HWY. 65 2' SW OF AHTD WITNESS POST APPROX. 75' NW OF SIGNS "GASTON'S AND EUREKA SPRINGS GARDENS".
<b>Elevation Adjust. Factor</b> 0.9999345284	<b>Combined Adjust. Factor</b> 0.9999563160	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN NW FACE OF SIGN POLE		16.74	54.9
<b>MK # 2</b>	TO EDGE OF US HWY. 65		8.43	27.7
<b>MK # 3</b>	TO PK AND SHINER		8.17	26.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050015A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 223,206.6504		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,961.5855		<b>Latitude</b> 36 20 21.2130060
<b>Elevation (M)*</b> 412.102		<b>Longitude</b> 93 12 12.3307524
<b>Northing (SFT)</b> 732,303.8189		<b>Ellipsoid Height (M):</b> 383.046
<b>Easting (SFT)</b> 957,877.3018		<b>Geoid Height (M):</b> -29.057
<b>Elevation (SFT)*</b> 1,352.038		

  

<b>Convergence Angle</b> 0 42 0.9794872	<b>Scale Factor</b> 1.000022653	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST ON EAST SIDE OF HWY. 65 - 2' SW OF AHTD WITNESS POST IN THE NW SECTION 3, T 19N, R 21W
<b>Elevation Adjust. Factor</b> 0.9999353319	<b>Combined Adjust. Factor</b> 0.9999579835	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF SIGN POLE		7.47	24.5	050014
MK # 2	60D NAIL IN NORTH FACE OF POLE		18.14	59.5	161 30 29.979
MK # 3	PK AND SHINER AT EAST EDGE OF ROAD		15.55	51.0	160 48 29.000

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	<b>Comments</b>    
--	---------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050016	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 226,398.2211		<b>Latitude</b> 36 22 4.1516400
<b>Easting (M)</b> 290,475.5718		<b>Longitude</b> 93 13 13.4999112
<b>Elevation (M)*</b> 425.958		<b>Ellipsoid Height (M):</b> 396.878
<b>Northing (SFT)</b> 742,774.8304		<b>Geoid Height (M):</b> -29.081
<b>Easting (SFT)</b> 953,001.9385		
<b>Elevation (SFT)*</b> 1,397.497		

  

<b>Convergence Angle</b> 0 42 36.5737674	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP IN 36" X 3/4" REBAR IN A CONCRETE POST ON WEST SIDE OF HWY. 65 IN NW 1/4 SECTION 28, T 20N, R 21W APPROX. 5' EAST OF AHTD WITNESS POST.
<b>Scale Factor</b> 1.000029357	
<b>Elevation Adjust. Factor</b> 0.9999331578	
<b>Combined Adjust. Factor</b> 0.9999625128	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	PK AND SHINER AT EDGE OF ROAD		2.91	9.5	<b>AZ Mark Station</b> 050017A
<b>MK # 2</b>	60D NAIL IN POLE		22.82	74.9	<b>Geodetic Azimuth</b> 332 31 20 5738
<b>MK # 3</b>	60D NAIL IN LIGHT POLE		26.19	85.9	<b>Grid Azimuth</b> 331 48 44.00

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> THOMASON <b>Ref Mon # 3</b> 050009A & 050010	<b>Comments</b> <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050017A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 226,666.5399		<b>Latitude</b> 36 22 12.7977636
<b>Easting (M)</b> 290,331.7741		<b>Longitude</b> 93 13 19.4012508
<b>Elevation (M)*</b> 429.165		<b>Ellipsoid Height (M):</b> 400.082
<b>Northing (SFT)</b> 743,655.1397		<b>Geoid Height (M):</b> -29.083
<b>Easting (SFT)</b> 952,530.1622		
<b>Elevation (SFT)*</b> 1,408.019		

  

<b>Convergence Angle</b>	0	42	40.0077517
<b>Scale Factor</b>	1.000029932		
<b>Elevation Adjust. Factor</b>	0.9999326546		
<b>Combined Adjust. Factor</b>	0.9999625845		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO SW CORNER OF CONCRETE PORCH		15.55	51.0
<b>MK # 2</b>	60D NAIL IN NW FACE OF POLE		30.62	100.5
<b>MK # 3</b>	PK & SHINER AR EDGE OF US HWY. 65		2.76	9.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050018	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 228,171.9633		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 289,988.0844		<b>Latitude</b> 36 23 1.4933400
<b>Elevation (M)*</b> 455.759		<b>Longitude</b> 93 13 33.9390948
<b>Northing (SFT)</b> 748,594.1829		<b>Ellipsoid Height (M):</b> 426.663
<b>Easting (SFT)</b> 951,402.5736		<b>Geoid Height (M):</b> -29.096
<b>Elevation (SFT)*</b> 1,495.269		

  

<b>Convergence Angle</b> 0 42 48.4673105	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR ON EAST R/W HWY. 65 APPROX. 0.3 MILES NORTH OF BURLINGTON GENERAL STORE IN SE 1/4, SECTION 17, T20N, R21W, EAST 1/4 DRIVEWAY WEST TO "SAMMY'S ROCK SHOP WITH AHTD WITNESS POST.
<b>Scale Factor</b> 1.000033201	
<b>Elevation Adjust. Factor</b> 0.9999284817	
<b>Combined Adjust. Factor</b> 0.9999616803	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO EDGE OF US HWY. 65		5.72	18.7
<b>MK # 2</b>	TO EDGE OF US HWY. 65		5.01	16.4
<b>MK # 3</b>	60D NAIL IN NE FACE OF RR CORNER POST		25.95	85.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> THOMASON <b>Ref Mon # 3</b> 050009A & 050010	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050019A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 228,437.0759		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,125.2479		<b>Latitude</b> 36 23 10.1486292
<b>Elevation (M)*</b> 451.818		<b>Longitude</b> 93 13 28.5686256
<b>Northing (SFT)</b> 749,463.9732		<b>Ellipsoid Height (M):</b> 422.718
<b>Easting (SFT)</b> 951,852.5842		<b>Geoid Height (M):</b> -29.100
<b>Elevation (SFT)*</b> 1,482.340		

  

<b>Convergence Angle</b> 0 42 45.3422391	<b>Scale Factor</b> 1.000033788	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SE OF INTERSECTION HWY. 65 AND DRIVE EAST TO BROWN HOUSE IN SE 1/4, SECTION 17 - T20N, R21W, 2' WEST OF AHTD WITNESS POST.
<b>Elevation Adjust. Factor</b> 0.9999291001	<b>Combined Adjust. Factor</b> 0.9999628857	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TO PIPE CORNER POST		9.13	30.0		050018
MK # 2	TO PIPE CORNER POST		1.81	6.0		208 04 07.3422
MK # 3	TO PIPE POST		1.27	4.2		207 21 22.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    BURLINGTON RESET Ref Mon # 2    THOMASON Ref Mon # 3    050009A & 050010	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050020	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 231,782.4226		<b>Latitude</b> 36 24 58.7480616
<b>Easting (M)</b> 290,327.0352		<b>Longitude</b> 93 13 22.1399112
<b>Elevation (M)*</b> 456.416		<b>Ellipsoid Height (M):</b> 427.834
<b>Northing (SFT)</b> 760,439.4981		<b>Geoid Height (M):</b> -29.134
<b>Easting (SFT)</b> 952,514.6147		
<b>Elevation (SFT)*</b> 1,497.425		

  

<b>Convergence Angle</b> 0 42 41.6013758	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN A CONCRETE POST ON WEST SIDE OF HWY. 65. 2' N-NW OF AHTD WITNESS POST -NOTE- MONUMENT IS INTERVISIBLE WITH POINT 344 AND MAY BE INTERVISIBLE WITH MONUMENT 050030.
<b>Scale Factor</b> 1.000041302	
<b>Elevation Adjust. Factor</b> 0.9999283786	
<b>Combined Adjust. Factor</b> 0.9999696776	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TO NORTHMOST GUARDRAIL POST		23.92	78.5		050021A
MK # 2	TO CONCRETE R/W MARKER		15.53	50.9		280 58 47.6014
MK # 3	NONE					280 16 06.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	
Ref Mon # 2 THOMASON	
Ref Mon # 3 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050021A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	232,052.5099	
<b>Easting (M)</b>	288,836.1709	
<b>Elevation (M)*</b>	479.134	
<b>Northing (SFT)</b>	761,325.6096	
<b>Easting (SFT)</b>	947,623.3374	
<b>Elevation (SFT)*</b>	1,571.959	

  

<b>Convergence Angle</b>	0	43	16.4988378
<b>Scale Factor</b>	1.000041878		
<b>Elevation Adjust. Factor</b>	0.9999248139		
<b>Combined Adjust. Factor</b>	0.9999666888		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PK & SHINER AT EDGE OF CR 18		4.91	16.1
MK # 2	PK & SHINER AT EDGE OF CR 18		5.84	19.2
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BURLINGTON RESET	
Ref Mon # 2 THOMASON	
Ref Mon # 3 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050022	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 234,520.5638		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,013.6412		<b>Latitude</b> 36 26 27.4417980
<b>Elevation (M)*</b> 411.344		<b>Longitude</b> 93 13 36.0870384
<b>Northing (SFT)</b> 769,422.8831		<b>Ellipsoid Height (M):</b> 382.175
<b>Easting (SFT)</b> 951,486.4212		<b>Geoid Height (M):</b> -29.159
<b>Elevation (SFT)*</b> 1,349.551		

  

<b>Convergence Angle</b> 0 42 49.7171970	<b>Location Description</b> AHTD 2 1/2 " ALUMINUM CAP ON 36" X 3/4" REBAR SIT IN CONCRETE POST IN OPEN FIELD SOUTH OF "L" CURVE IN DIRT ROAD IN SE 1/3, SECTION 29, T21N, R 21W, MONUMENT IS ON PROPERTY OWNED BY MR. COOK WHO LIVES IN SECOND HOUSE NORTH OF "L" CURVE.
<b>Scale Factor</b> 1.000047646	
<b>Elevation Adjust. Factor</b> 0.9999354509	
<b>Combined Adjust. Factor</b> 0.9999830938	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WITNESS POST BY 8" PINE		20.58	67.5		050023A
MK # 2	60D NAIL IN NORTH FACE OF 6" HICKORY		48.40	158.8		328 47 19.7172
MK # 3	60D NAIL IN NORTH FACE OF 6" HICKORY		30.63	100.5		328 04 30.0

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	<b>Comments</b>     
--	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050023A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 234,759.0585		<b>Latitude</b> 36 26 35.1179808
<b>Easting (M)</b> 289,865.0470		<b>Longitude</b> 93 13 42.1721148
<b>Elevation (M)*</b> 418.475		<b>Ellipsoid Height (M):</b> 389.316
<b>Northing (SFT)</b> 770,205.3444		<b>Geoid Height (M):</b> -29.160
<b>Easting (SFT)</b> 950,998.9084		
<b>Elevation (SFT)*</b> 1,372.947		

  

<b>Convergence Angle</b>	0	42	53.2580976
<b>Scale Factor</b>	1.000048204		
<b>Elevation Adjust. Factor</b>	0.9999343319		
<b>Combined Adjust. Factor</b>	0.9999825328		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN NW FACE OF 12" CEDAR		11.00	36.1
<b>MK # 2</b>	60D NAIL IN NORTH FACE OF 4" CEDAR		6.90	22.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050024	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 236,275.1300		<b>Latitude</b> 36 27 24.5960172
<b>Easting (M)</b> 290,608.6678		<b>Longitude</b> 93 13 13.0714896
<b>Elevation (M)*</b> 399.304		<b>Ellipsoid Height (M):</b> 370.126
<b>Northing (SFT)</b> 775,179.3223		<b>Geoid Height (M):</b> -29.178
<b>Easting (SFT)</b> 953,438.6043		
<b>Elevation (SFT)*</b> 1,310.050		

  

<b>Convergence Angle</b>	0	42	36.3244692
<b>Scale Factor</b>	1.000051833		
<b>Elevation Adjust. Factor</b>	0.9999373401		
<b>Combined Adjust. Factor</b>	0.9999891699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SW FACE OF 10" OAK TREE		48.14	157.9
<b>MK # 2</b>	60 D NAIL IN WEST FACE OF 5" PINE TREE		44.92	147.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050025A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 237,390.6238		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,423.6404		<b>Latitude</b> 36 28 0.7056012
<b>Elevation (M)*</b> 379.157		<b>Longitude</b> 93 13 21.0574560
<b>Northing (SFT)</b> 778,839.0716		<b>Ellipsoid Height (M):</b> 349.970
<b>Easting (SFT)</b> 952,831.5602		<b>Geoid Height (M):</b> -29.187
<b>Elevation (SFT)*</b> 1,243.951		

  

<b>Convergence Angle</b> 0 42 40.9714961	<b>Scale Factor</b> 1.000054518	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST NEAT NORTH 1/32ND CORNER SECTION 20+21, T21N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999405014	<b>Combined Adjust. Factor</b> 0.9999950162	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO SE CORNER OF CONCRETE FOUNDATION		28.29	92.8
<b>MK # 2</b>	60D NAIL IN EAST FACE OF TRANSFORMER		52.34	171.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050026	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 239,048.0493		<b>Latitude</b> 36 28 54.5117700
<b>Easting (M)</b> 290,531.4921		<b>Longitude</b> 93 13 17.5519344
<b>Elevation (M)*</b> 404.315		<b>Ellipsoid Height (M):</b> 375.113
		<b>Geoid Height (M):</b> -29.202

  

<b>Northing (SFT)</b> 784,276.8084	<b>Easting (SFT)</b> 953,185.4037	<b>Location Description</b>  AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR IN CONCRETE POST. 1.7' SOUTH OF AHTD WITNESS POST, ON TOP OF RIDGE EAST OF LARGE DRAIN IN NW 1/4, SECTION 16, T21N, R21W.
<b>Elevation (SFT)*</b> 1,326.490		

  

<b>Convergence Angle</b> 0 42 38.9316361	<b>Scale Factor</b> 1.000058576	
<b>Elevation Adjust. Factor</b> 0.9999365538	<b>Combined Adjust. Factor</b> 0.9999951261	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN W FACE OF TREE		49.49	162.4
<b>MK # 2</b>	60D NAIL IN N FACE OF 24" MAPLE		50.13	164.5
<b>MK # 3</b>	60D NAIL IN NE FACE OF 18" MAPLE		67.03	219.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050027A	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
---------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 238,795.0522		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,179.8696		<b>Latitude</b> 36 28 46.1634672
<b>Elevation (M)*</b> 405.101		<b>Longitude</b> 93 13 31.5493212
<b>Northing (SFT)</b> 783,446.7671		<b>Ellipsoid Height (M):</b> 375.902
<b>Easting (SFT)</b> 952,031.7888		<b>Geoid Height (M):</b> -29.199
<b>Elevation (SFT)*</b> 1,329.069		

  

<b>Convergence Angle</b> 0 42 47.0767033	<b>Location Description</b> AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST IN NE 1/4 SECTION 17, T21N, R21W, APPROX. 400' SOUTH OF SMALL POND. 1.6' SOUTH OF AHTD WITNESS POST.
<b>Scale Factor</b> 1.000057942	
<b>Elevation Adjust. Factor</b> 0.9999364305	
<b>Combined Adjust. Factor</b> 0.9999943688	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN NW FACE OF 36" TWIN OAK TR		37.62	123.4
<b>MK # 2</b>	60D NAIL IN N FACE OF 30" OAK		38.68	126.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050028	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	---	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 240,182.5979		<b>Latitude</b> 36 29 31.3005480
<b>Easting (M)</b> 290,499.3297		<b>Longitude</b> 93 13 19.4094624
<b>Elevation (M)*</b> 421.372		<b>Ellipsoid Height (M):</b> 392.159
<b>Northing (SFT)</b> 787,999.0733		<b>Geoid Height (M):</b> -29.212
<b>Easting (SFT)</b> 953,079.8842		
<b>Elevation (SFT)*</b> 1,382.451		

  

<b>Convergence Angle</b>	0	42	40.0125301
<b>Scale Factor</b>	1.000061390		
<b>Elevation Adjust. Factor</b>	0.9999338774		
<b>Combined Adjust. Factor</b>	0.9999952633		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NE CORNER OF CONCRETE SLAB		24.57	80.6
<b>MK # 2</b>	SE CORNER OF CONCRETE SLAB		19.48	63.9
<b>MK # 3</b>	60D NAIL IN SOUTH FACE OF POST		27.52	90.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 05009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050030	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> 9936
--------------------------	------------------------------------	--	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 230,590.5526		<b>Latitude</b> 36 24 19.7890812
<b>Easting (M)</b> 289,593.0837		<b>Longitude</b> 93 13 50.9987856
<b>Elevation (M)*</b> 468.146		<b>Ellipsoid Height (M):</b> 439.027
		<b>Geoid Height (M):</b> -29.119

  

<b>Northing (SFT)</b> 756,529.1713	<b>Easting (SFT)</b> 950,106.6421	<b>Location Description</b>  AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST APPROX. 500' WEST OF JCT. HWY. 65 AND TOWER ROAD IN NORTH R/W - 1.65' SOUTH OF AHTD WITNESS POST AND SOUTHWEST OF LARGE WHITE COMMERCIAL BUILDING. NOTE AZIMUTH MARK IS MONUMENT 050021A.
<b>Elevation (SFT)*</b> 1,535.909		

  

<b>Convergence Angle</b> 0 42 58.3943297	<b>Scale Factor</b> 1.000038574	
<b>Elevation Adjust. Factor</b> 0.9999265380	<b>Combined Adjust. Factor</b> 0.9999651092	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN CORNER POST		21.23	69.6
<b>MK # 2</b>	60D NAIL IN NORTH FACE OF ELM TREE		15.80	51.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	
<b>Ref Mon # 2</b> THOMASON	
<b>Ref Mon # 3</b> 050009A & 050010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050031	<b>Date Monumented</b> 12/6/2002	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 62	<b>Job Number:</b> 090152
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,319.9400	
<b>Easting (M)</b>	309,611.9640	
<b>Elevation (M)*</b>	357.736	
<b>Northing (SFT)</b>	683,463.0032	
<b>Easting (SFT)</b>	1,015,785.2519	
<b>Elevation (SFT)*</b>	1,173.673	

  

<b>Convergence Angle</b>	0	35	5.6092893
<b>Scale Factor</b>	0.999994878		
<b>Elevation Adjust. Factor</b>	0.9999438627		
<b>Combined Adjust. Factor</b>	0.9999387410		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LOG MILE 2.00 SIGN POST	15	5.25	17.2
<b>MK # 2</b>	CORNER POST	251	3.25	10.7
<b>MK # 3</b>	WOOD FENCE POST	228	4.00	13.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="AHTD HAR1"/> <b>Ref Mon # 2</b> <input type="text" value="Russport"/> <b>Ref Mon # 3</b> <input type="text" value="Butler"/>	3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62, LOCATED IN BELLEFONTE JUST NORTH OF THE A.H.T.D. DISTRICT 9 HEADQUARTERS, GO EAST ON U.S. HIGHWAY 62 FOR 2.00 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 7.70 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, AND 0.63 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "050031 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

  

<b>AZ Mark Station</b>	050031A
<b>Geodetic Azimuth</b>	90 21 30
<b>Grid Azimuth</b>	90 56 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050031A	<b>Date Monumented</b> 12/6/2002	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 62	<b>Job Number:</b> 090152
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,311.6900	
<b>Easting (M)</b>	310,112.9830	
<b>Elevation (M)*</b>	366.938	
<b>Northing (SFT)</b>	683,435.9363	
<b>Easting (SFT)</b>	1,017,429.0117	
<b>Elevation (SFT)*</b>	1,203.863	

  

<b>Convergence Angle</b>	0	34	53.9367933
<b>Scale Factor</b>	0.999994872		
<b>Elevation Adjust. Factor</b>	0.9999424187		
<b>Combined Adjust. Factor</b>	0.9999372910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62, LOCATED IN BELLEFONTE JUST NORTH OF THE A.H.T.D. DISTRICT 9 HEADQUARTERS, GO EAST ON U.S. HIGHWAY 62 FOR 2.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62 AND 2.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "050031A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	48	4.55	14.9
MK # 2	POWER POLE WITH GUY WIRE	280	13.50	44.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HAR1</p> <p>Ref Mon # 2    Russport</p> <p>Ref Mon # 3    Butler</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050032	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090225,090221
--------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	3rd Order - 3 Wire Level
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Elevation Datum:</b>	NAVD 88	
<b>Geoid Datum:</b>		
<b>Northing (M)</b>	201,011.2079	<b>Latitude</b>
<b>Easting (M)</b>	299,069.4840	36 8 23.8974468
<b>Elevation (M)*</b>	372.820	<b>Longitude</b>
		93 7 17.1936804
<b>Northing (SFT)</b>	659,484.2713	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	981,197.1321	344.644
<b>Elevation (SFT)*</b>	1,223.161	<b>Geoid Height (M):</b>
		-28.148

  

<b>Convergence Angle</b>	0	39	9.2394824
<b>Scale Factor</b>	0.999982880		
<b>Elevation Adjust. Factor</b>	0.9999414958		
<b>Combined Adjust. Factor</b>	0.9999243768		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE STATION MARK IS LOCATED AT THE NORTHEAST CORNER OF THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 206, SOUTH OF HARRISON, NORTH OF EAST 206 30.0 METERS, EAST 11.10 METERS OF HIGHWAY 7 AND WEST 1.0 METERS OF A WITNESS POST. THE STATION MARK IS A STAND				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	158	19.05	62.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARP 2 Ref Mon # 2    W.H. PHILLIPS Ref Mon # 3    ARHR	<b>Comments</b>  3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050032A	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090225,090221
---------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	200,420.5969	
<b>Easting (M)</b>	299,214.6750	
<b>Elevation (M)*</b>	381.070	
<b>Northing (SFT)</b>	657,546.5750	
<b>Easting (SFT)</b>	981,673.4796	
<b>Elevation (SFT)*</b>	1,250.227	

  

<b>Convergence Angle</b>	0	39	5.7040073
<b>Scale Factor</b>	0.999981987		
<b>Elevation Adjust. Factor</b>	0.9999402013		
<b>Combined Adjust. Factor</b>	0.9999221893		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 206, SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 7 0.35 MILES TO THE STATION ON THE RIGHT, WEST 12.5 METERS FROM THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.00 METERS OF A WITNESS POST. THE</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARP 2</p> <p><b>Ref Mon # 2</b>    W.H. PHILLIPS</p> <p><b>Ref Mon # 3</b>    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050201	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,883.3251		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 282,986.4120		<b>Latitude</b> 36 17 57.2611200
<b>Elevation (M)*</b> 353.062		<b>Longitude</b> 93 18 9.9003744
<b>Northing (SFT)</b> 718,119.7091		<b>Ellipsoid Height (M):</b> 324.100
<b>Easting (SFT)</b> 928,431.2534		<b>Geoid Height (M):</b> -28.962
<b>Elevation (SFT)*</b> 1,158.338		

  

<b>Convergence Angle</b> 0 45 29.0489385	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP.
<b>Scale Factor</b> 1.000013697	
<b>Elevation Adjust. Factor</b> 0.9999445961	
<b>Combined Adjust. Factor</b> 0.9999582924	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	NONE NONE NONE

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050203	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,709.1410		<b>Latitude</b> 36 17 51.8077716
<b>Easting (M)</b> 283,446.5200		<b>Longitude</b> 93 17 51.3694032
<b>Elevation (M)*</b> 338.514		<b>Ellipsoid Height (M):</b> 309.551
<b>Northing (SFT)</b> 717,548.2401		<b>Geoid Height (M):</b> -28.963
<b>Easting (SFT)</b> 929,940.7910		
<b>Elevation (SFT)*</b> 1,110.608		

  

<b>Convergence Angle</b>	0	45	18.2657825
<b>Scale Factor</b>	1.000013367		
<b>Elevation Adjust. Factor</b>	0.9999468789		
<b>Combined Adjust. Factor</b>	0.9999602452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN POLE		16.89	55.4	
MK # 2	NONE		5.88	19.3	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050204	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,132.2680		<b>Latitude</b> 36 17 33.0504864
<b>Easting (M)</b> 283,344.1870		<b>Longitude</b> 93 17 55.1654268
<b>Elevation (M)*</b> 358.387		<b>Ellipsoid Height (M):</b> 329.430
		<b>Geoid Height (M):</b> -28.957

  

<b>Northing (SFT)</b> 715,655.6159		
<b>Easting (SFT)</b> 929,605.0535		
<b>Elevation (SFT)*</b> 1,175.808		

  

<b>Convergence Angle</b> 0 45 20.4746853		
<b>Scale Factor</b> 1.000012239		
<b>Elevation Adjust. Factor</b> 0.9999437606		
<b>Combined Adjust. Factor</b> 0.9999559989		

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Reference Marks</b>			
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>
			<b>Meters</b> <b>Feet</b>
<b>MK # 1</b>	NONE		
<b>MK # 2</b>	NONE		
<b>MK # 3</b>	NONE		

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>						
<table style="width: 100%;"> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>NONE</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>NONE</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>NONE</td> </tr> </table>	<b>Ref Mon # 1</b>	NONE	<b>Ref Mon # 2</b>	NONE	<b>Ref Mon # 3</b>	NONE	
<b>Ref Mon # 1</b>	NONE						
<b>Ref Mon # 2</b>	NONE						
<b>Ref Mon # 3</b>	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050205	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Highway Engineering	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,600.2261		<b>Latitude</b> 36 17 48.7213584
<b>Easting (M)</b> 284,496.1880		<b>Longitude</b> 93 17 9.2473584
<b>Elevation (M)*</b> 341.641		<b>Ellipsoid Height (M):</b> 312.672
		<b>Geoid Height (M):</b> -28.969

  

<b>Northing (SFT)</b> 717,190.9085	<b>Easting (SFT)</b> 933,384.5768	<b>Location Description</b>  STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN ALFALFA FIELD APPROX 500' EAST OF WEST END OF FIELD.
<b>Elevation (SFT)*</b> 1,120.867		

  

<b>Convergence Angle</b> 0 44 53.7550013	<b>Scale Factor</b> 1.000013181
<b>Elevation Adjust. Factor</b> 0.9999463883	<b>Combined Adjust. Factor</b> 0.9999595686

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SMALL 3" TREE		31.30	102.7	
MK # 2	SMALL PERSIMMON		28.10	92.2	
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050206	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,230.0541		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 284,141.5400		<b>Latitude</b> 36 17 36.5626356
<b>Elevation (M)*</b> 347.268		<b>Longitude</b> 93 17 23.2652472
<b>Northing (SFT)</b> 715,976.4358		<b>Ellipsoid Height (M):</b> 318.305
<b>Easting (SFT)</b> 932,221.0358		<b>Geoid Height (M):</b> -28.963
<b>Elevation (SFT)*</b> 1,139.328		

  

<b>Convergence Angle</b> 0 45 1.9119986	<b>Scale Factor</b> 1.000012449	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON EAST SIDE OF SOUTH DENTON STREET WEST OF MOBILE HOME AND SOUTH OF MINISTORAGE BUILDING.
<b>Elevation Adjust. Factor</b> 0.9999455053	<b>Combined Adjust. Factor</b> 0.9999579536	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN POWER POLE		10.82	35.5
<b>MK # 2</b>	60D IN POLE SE OF GRAY STONE HOUSE		23.96	78.6
<b>MK # 3</b>	SW CORNER OF OFF WHITE MOBILE HOME		16.64	54.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050207	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,239.5661		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 284,601.3590		<b>Latitude</b> 36 17 37.0662180
<b>Elevation (M)*</b> 339.496		<b>Longitude</b> 93 17 4.8441300
<b>Northing (SFT)</b> 716,007.6431		<b>Ellipsoid Height (M):</b> 310.530
<b>Easting (SFT)</b> 933,729.6253		<b>Geoid Height (M):</b> -28.966
<b>Elevation (SFT)*</b> 1,113.830		

  

<b>Convergence Angle</b> 0 44 51.1927666	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "207" DRIVEN FLUSH WITH GROUND IN HAY FIELD APPROX 775' EAST OF US HIGHWAY 62.
<b>Scale Factor</b> 1.000012479	
<b>Elevation Adjust. Factor</b> 0.9999467248	
<b>Combined Adjust. Factor</b> 0.9999592032	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> 60D NAIL AT BASE OF FLAGGED "T" POST				
<b>MK # 2</b> 60D NAIL IN W FACE OF 18" OAK				
<b>MK # 3</b> 60D NAIL AT BASE OF FLAGGED "T" POST				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050208	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	217,747.3120	
<b>Easting (M)</b>	284,611.3780	
<b>Elevation (M)*</b>	340.565	
<b>Northing (SFT)</b>	714,392.6395	
<b>Easting (SFT)</b>	933,762.4960	
<b>Elevation (SFT)*</b>	1,117.337	

  

<b>Convergence Angle</b>	0	44	50.8093905
<b>Scale Factor</b>	1.000011524		
<b>Elevation Adjust. Factor</b>	0.9999465571		
<b>Combined Adjust. Factor</b>	0.9999580805		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN WEST FACE OF 8" ELM		53.68	176.1
MK # 2	60D NAIL IN EAST FACE OF 8" POST		24.83	81.5
MK # 3	60D NAIL IN EAST FACE OF 4" SUMACK		41.94	137.6

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	NONE							
Ref Mon # 2	NONE							
Ref Mon # 3	NONE							
Comments								

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050209	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,206.7561		<b>Latitude</b> 36 17 36.3444900
<b>Easting (M)</b> 285,413.6690		<b>Longitude</b> 93 16 32.2757112
<b>Elevation (M)*</b> 350.980		<b>Ellipsoid Height (M):</b> 322.010
		<b>Geoid Height (M):</b> -28.971

  

<b>Northing (SFT)</b> 715,899.9990		<b>Location Description</b>
<b>Easting (SFT)</b> 936,394.6790		STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF WHITE FARM HOUSE APPROX 500' NORTH OF HIGHWAY 62.
<b>Elevation (SFT)*</b> 1,151.507		
<b>Convergence Angle</b> 0 44 32.2412321		
<b>Scale Factor</b> 1.000012436		
<b>Elevation Adjust. Factor</b> 0.9999449228		
<b>Combined Adjust. Factor</b> 0.9999573581		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> 60D NAIL IN 12" OAK		39.01	128.0	<b>Geodetic Azimuth</b>
<b>MK # 2</b> NW CORNER OF SMALL WOOD BUILDING		50.17	164.6	<b>Grid Azimuth</b>
<b>MK # 3</b> NONE				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050210	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,898.5760		<b>Latitude</b> 36 17 26.3836968
<b>Easting (M)</b> 285,500.5020		<b>Longitude</b> 93 16 28.6362192
<b>Elevation (M)*</b> 375.638		<b>Ellipsoid Height (M):</b> 346.546
<b>Northing (SFT)</b> 714,888.9114		<b>Geoid Height (M):</b> -28.968
<b>Easting (SFT)</b> 936,679.5636		
<b>Elevation (SFT)*</b> 1,232.406		

  

<b>Convergence Angle</b> 0 44 30.1234148	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN CLEARING ON NORTHSIDE OF TRACK ROAD APPROX 100' SW OF OLD 2 TON FORD TRUCK.
<b>Scale Factor</b> 1.000011839	
<b>Elevation Adjust. Factor</b> 0.9999410536	
<b>Combined Adjust. Factor</b> 0.9999528919	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 6" PERSIMMON		19.11	62.7	
MK # 2	60D NAIL IN SMALL EVERGREEN		26.21	86.0	
MK # 3	CENTER LINE OF TRACK ROAD		5.64	18.5	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050211	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,420.0320		<b>Latitude</b> 36 17 43.6378416
<b>Easting (M)</b> 286,308.7750		<b>Longitude</b> 93 15 56.5163892
<b>Elevation (M)*</b> 367.059		<b>Ellipsoid Height (M):</b> 338.081
		<b>Geoid Height (M):</b> -28.978

  

<b>Northing (SFT)</b> 716,599.7217	<b>Easting (SFT)</b> 939,331.3726	<b>Location Description</b>  STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN EAST R/W OF BLACKTOP ROAD APPROX 0.2 MILE N -NE OF HIGHWAY 62.
<b>Elevation (SFT)*</b> 1,204.259		

  

<b>Convergence Angle</b> 0 44 11.4329138	<b>Scale Factor</b> 1.000012875
<b>Elevation Adjust. Factor</b> 0.9999423998	<b>Combined Adjust. Factor</b> 0.9999552741

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL		5.24	17.2	
MK # 2	60D NAIL		5.46	17.9	
MK # 3	WEST OF FENCE		1.62	5.3	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050212	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 217,875.5340		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 286,091.2100		<b>Latitude</b> 36 17 25.8836532
<b>Elevation (M)*</b> 400.383		<b>Longitude</b> 93 16 4.9539756
<b>Northing (SFT)</b> 714,813.3145		<b>Ellipsoid Height (M):</b> 371.411
<b>Easting (SFT)</b> 938,617.5781		<b>Geoid Height (M):</b> -28.972
<b>Elevation (SFT)*</b> 1,313.590		

  

<b>Convergence Angle</b> 0 44 16.3427379	<b>Scale Factor</b> 1.000011810	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP.
<b>Elevation Adjust. Factor</b> 0.9999371708	<b>Combined Adjust. Factor</b> 0.9999489801	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050213	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,404.3380		<b>Latitude</b> 36 17 43.5804936
<b>Easting (M)</b> 287,397.2990		<b>Longitude</b> 93 15 12.8872584
<b>Elevation (M)*</b> 400.035		<b>Ellipsoid Height (M):</b> 371.050
		<b>Geoid Height (M):</b> -28.985

  

<b>Northing (SFT)</b> 716,548.2323	<b>Easting (SFT)</b> 942,902.6385	<b>Location Description</b>  STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 250' NW OF GATE ON SIDE OF HILL.
<b>Elevation (SFT)*</b> 1,312.448		

  

<b>Convergence Angle</b> 0 43 46.0451606	<b>Scale Factor</b> 1.000012871
<b>Elevation Adjust. Factor</b> 0.9999372254	<b>Combined Adjust. Factor</b> 0.9999500956

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> 60D NAIL IN LONE 4" SYCAMORE		12.89	42.3	<b>Geodetic Azimuth</b>
<b>MK # 2</b> 60D NAIL IN 6" TREE		26.09	85.6	<b>Grid Azimuth</b>
<b>MK # 3</b> 60D NAIL IN 12" SYCAMORE		28.90	94.8	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050215	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	218,549.6561	
<b>Easting (M)</b>	288,435.8110	
<b>Elevation (M)*</b>	403.446	
<b>Northing (SFT)</b>	717,024.9967	
<b>Easting (SFT)</b>	946,309.8233	
<b>Elevation (SFT)*</b>	1,323.639	

  

<b>Convergence Angle</b>	0	43	21.8710051
<b>Scale Factor</b>	1.000013181		
<b>Elevation Adjust. Factor</b>	0.9999366902		
<b>Combined Adjust. Factor</b>	0.9999498703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN 3" TREE		42.92	140.8
<b>MK # 2</b>	60D NAIL IN TOP OF STUMP		22.74	74.6
<b>MK # 3</b>	60D NAIL IN 8" OAK		56.85	186.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050216	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,883.4130		<b>Latitude</b> 36 17 27.0014496
<b>Easting (M)</b> 288,173.9540		<b>Longitude</b> 93 14 41.4998952
<b>Elevation (M)*</b> 438.327		<b>Ellipsoid Height (M):</b> 409.343
		<b>Geoid Height (M):</b> -28.984

  

<b>Northing (SFT)</b> 714,839.1642		<b>Location Description</b>
<b>Easting (SFT)</b> 945,450.7141		STATION IS A 5/8" REBAR WITH ALUMINUM CAP SW OF FRED MATHIS RESIDENCE.
<b>Elevation (SFT)*</b> 1,438.078		
<b>Convergence Angle</b> 0 43 27.7808813		
<b>Scale Factor</b> 1.000011876		
<b>Elevation Adjust. Factor</b> 0.9999312169		
<b>Combined Adjust. Factor</b> 0.9999430921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 14" PECAN TREE		33.71	110.6	
MK # 2	60D NAIL IN 12" PECAN TREE		23.71	77.8	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050217	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,141.4471		<b>Latitude</b> 36 17 35.7071928
<b>Easting (M)</b> 288,994.0900		<b>Longitude</b> 93 14 8.7656640
<b>Elevation (M)*</b> 437.727		<b>Ellipsoid Height (M):</b> 408.736
<b>Northing (SFT)</b> 715,685.7310		<b>Geoid Height (M):</b> -28.991
<b>Easting (SFT)</b> 948,141.4436		
<b>Elevation (SFT)*</b> 1,436.109		

  

<b>Convergence Angle</b>	0	43	8.7328607
<b>Scale Factor</b>	1.000012398		
<b>Elevation Adjust. Factor</b>	0.9999313111		
<b>Combined Adjust. Factor</b>	0.9999437082		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	NONE				<b>AZ Mark Station</b>
<b>MK # 2</b>	NONE				<b>Geodetic Azimuth</b>
<b>MK # 3</b>	NONE				<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>       
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050218	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,483.7010		<b>Latitude</b> 36 17 14.2908720
<b>Easting (M)</b> 288,799.9690		<b>Longitude</b> 93 14 16.2132288
<b>Elevation (M)*</b> 448.111		<b>Ellipsoid Height (M):</b> 419.127
		<b>Geoid Height (M):</b> -28.984

  

<b>Northing (SFT)</b> 713,527.7757		<b>Location Description</b>
<b>Easting (SFT)</b> 947,504.5650		STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "218" DRIVEN FLUSH IN CLEARING OF DENSE BRUSH APPROX 60'-70' NE OF A LARGE DEAD TREE AND APPROX 400' WEST OF NORTH -SOUTH FENCE AND APPROX 800' NW OF POND.
<b>Elevation (SFT)*</b> 1,470.178		
<b>Convergence Angle</b> 0 43 13.0665922		
<b>Scale Factor</b> 1.000011118		
<b>Elevation Adjust. Factor</b> 0.9999296817		
<b>Combined Adjust. Factor</b> 0.9999407989		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LARGE DEAD TREE		18.50	60.7	
MK # 2	NONE				
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050219	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,300.5590		<b>Latitude</b> 36 17 41.1599148
<b>Easting (M)</b> 289,711.4780		<b>Longitude</b> 93 13 40.0975248
<b>Elevation (M)*</b> 429.902		<b>Ellipsoid Height (M):</b> 400.906
<b>Northing (SFT)</b> 716,207.7507		<b>Geoid Height (M):</b> -28.997
<b>Easting (SFT)</b> 950,495.0741		
<b>Elevation (SFT)*</b> 1,410.437		

  

<b>Convergence Angle</b>	0	42	52.0508955
<b>Scale Factor</b>	1.000012725		
<b>Elevation Adjust. Factor</b>	0.9999325389		
<b>Combined Adjust. Factor</b>	0.9999452631		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SOUTH FACE OF 20" SUMACK		42.25	138.6
<b>MK # 2</b>	60D NAIL IN EAST FACE OF 12" OAK		30.32	99.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050220	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 217,682.1660		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 289,581.3930		<b>Latitude</b> 36 17 21.0466464
<b>Elevation (M)*</b> 411.486		<b>Longitude</b> 93 13 45.0011028
<b>Northing (SFT)</b> 714,178.9063		<b>Ellipsoid Height (M):</b> 382.495
<b>Easting (SFT)</b> 950,068.2869		<b>Geoid Height (M):</b> -28.991
<b>Elevation (SFT)*</b> 1,350.017		

  

<b>Convergence Angle</b> 0 42 54.9042833	
<b>Scale Factor</b> 1.000011521	
<b>Elevation Adjust. Factor</b> 0.9999354286	
<b>Combined Adjust. Factor</b> 0.9999469489	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

<b>Location Description</b>			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP TAKE ROAD SOUTH AT BOBO'S BERRY'S TO PIPELINE SCAR GO EAST.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	6" ELM AT SOUTH EDGE OF TREE LINE		43.59	143.0	
MK # 2	EAST GATE POST		56.08	184.0	
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input type="text" value="NONE"/> Ref Mon # 2 <input type="text" value="NONE"/> Ref Mon # 3 <input type="text" value="NONE"/>	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050221	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Highway Survey	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 218,144.0630		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,797.9120		<b>Latitude</b> 36 17 36.5205300
<b>Elevation (M)*</b> 432.886		<b>Longitude</b> 93 12 56.4828876
<b>Northing (SFT)</b> 715,694.3134		<b>Ellipsoid Height (M):</b> 403.885
<b>Easting (SFT)</b> 954,059.4830		<b>Geoid Height (M):</b> -29.002
<b>Elevation (SFT)*</b> 1,420.227		

  

<b>Convergence Angle</b> 0 42 26.6715762	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF RED BARN AND NORTH OF LOBACK CEMETERY.
<b>Scale Factor</b> 1.000012447	
<b>Elevation Adjust. Factor</b> 0.9999320707	
<b>Combined Adjust. Factor</b> 0.9999445168	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 24" OAK		56.69	186.0	
MK # 2	60D NAIL IN 6" OAK		38.31	125.7	
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050222	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	217,682.2101	
<b>Easting (M)</b>	290,722.0040	
<b>Elevation (M)*</b>	435.048	
<b>Northing (SFT)</b>	714,179.0510	
<b>Easting (SFT)</b>	953,810.4415	
<b>Elevation (SFT)*</b>	1,427.320	

  

<b>Convergence Angle</b>	0	42	28.3085634
<b>Scale Factor</b>	1.000011548		
<b>Elevation Adjust. Factor</b>	0.9999317314		
<b>Combined Adjust. Factor</b>	0.9999432787		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON PROPERTY OWNED BY MR AND MRS DULA GO SOUTH BY RESIDENCE EAST OF GIFT SHOP ON TRACK ROAD TO STATION WHICH IS SE OF OLD ROCK BUILDING.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH MOST CORNER OF OLD ROCK BUILDING		40.66	133.4
MK # 2	NORTH EDGE OF WATER		41.15	135.0
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050223	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	218,229.0841	
<b>Easting (M)</b>	291,641.3420	
<b>Elevation (M)*</b>	411.544	
<b>Northing (SFT)</b>	715,973.2534	
<b>Easting (SFT)</b>	956,826.6362	
<b>Elevation (SFT)*</b>	1,350.207	

  

<b>Convergence Angle</b>	0	42	7.0284439
<b>Scale Factor</b>	1.000012633		
<b>Elevation Adjust. Factor</b>	0.9999354195		
<b>Combined Adjust. Factor</b>	0.9999480517		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN EAST FACE OF 18" OAK		58.51	191.9	
<b>MK # 2</b>	60D NAIL IN TOP OF 2" STUMP		19.93	65.4	
<b>MK # 3</b>	60D NAIL IN W FACE OF 8" DOUBLE OAK		25.56	83.8	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width:100%;" type="text" value="NONE"/> <b>Ref Mon # 2</b> <input style="width:100%;" type="text" value="NONE"/> <b>Ref Mon # 3</b> <input style="width:100%;" type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050224	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,831.5051		<b>Latitude</b> 36 17 26.6914932
<b>Easting (M)</b> 291,575.4840		<b>Longitude</b> 93 12 25.1697888
<b>Elevation (M)*</b> 420.335		<b>Ellipsoid Height (M):</b> 391.332
		<b>Geoid Height (M):</b> -29.003

  

<b>Northing (SFT)</b> 714,668.8630		<b>Location Description</b>
<b>Easting (SFT)</b> 956,610.5671		STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 1000' SOUTH OF HIGHWAY 62 ON WEST SIDE OF GRAVEL ROAD.
<b>Elevation (SFT)*</b> 1,379.049		
<b>Convergence Angle</b> 0 42 8.4505113		
<b>Scale Factor</b> 1.000011858		
<b>Elevation Adjust. Factor</b> 0.9999340401		
<b>Combined Adjust. Factor</b> 0.9999458973		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> 60D NAIL IN NORTH GATE POST		32.55	106.8	
<b>MK # 2</b> 60D NAIL IN 24" OAK		26.73	87.7	
<b>MK # 3</b> NONE				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050225	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,141.4950		<b>Latitude</b> 36 17 37.2196680
<b>Easting (M)</b> 292,769.1560		<b>Longitude</b> 93 11 37.4880696
<b>Elevation (M)*</b> 382.012		<b>Ellipsoid Height (M):</b> 352.999
<b>Northing (SFT)</b> 715,685.8882		<b>Geoid Height (M):</b> -29.013
<b>Easting (SFT)</b> 960,526.8060		
<b>Elevation (SFT)*</b> 1,253.318		

  

<b>Convergence Angle</b>	0	41	40.7045605
<b>Scale Factor</b>	1.000012489		
<b>Elevation Adjust. Factor</b>	0.9999400535		
<b>Combined Adjust. Factor</b>	0.9999525417		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SE FACE OF 24" OAK		43.54	142.8
<b>MK # 2</b>	60D NAIL IN NE FACE OF 30" POST OAK		54.96	180.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050226	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	--	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 217,591.2691		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 292,786.1540		<b>Latitude</b> 36 17 19.3769880
<b>Elevation (M)*</b> 388.105		<b>Longitude</b> 93 11 36.5396352
<b>Northing (SFT)</b> 713,880.6887		<b>Ellipsoid Height (M):</b> 359.097
<b>Easting (SFT)</b> 960,582.5736		<b>Geoid Height (M):</b> -29.008
<b>Elevation (SFT)*</b> 1,273.308		

  

<b>Convergence Angle</b> 0 41 40.1526673	<b>Scale Factor</b> 1.000011421	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED 226 FLUSH ON HILLTOP APPROX 800' SOUTH OF ROCK HOUSE.
<b>Elevation Adjust. Factor</b> 0.9999390974	<b>Combined Adjust. Factor</b> 0.9999505177	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D IN E FACE OF 18" OAK-S. SIDE OF GATE		110.74	363.3	
MK # 2	60D NAIL IN NW FACE OF 24" ACORN TREE		160.26	525.8	
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>    
---	---------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050227	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 218,399.6640		<b>Latitude</b> 36 17 45.9305808
<b>Easting (M)</b> 293,626.6000		<b>Longitude</b> 93 11 3.2520696
<b>Elevation (M)*</b> 349.316		<b>Ellipsoid Height (M):</b> 320.296
<b>Northing (SFT)</b> 716,532.8976		<b>Geoid Height (M):</b> -29.020
<b>Easting (SFT)</b> 963,339.9368		
<b>Elevation (SFT)*</b> 1,146.048		

  

<b>Convergence Angle</b>	0	41	20.7826619
<b>Scale Factor</b>	1.000013013		
<b>Elevation Adjust. Factor</b>	0.9999451839		
<b>Combined Adjust. Factor</b>	0.9999581962		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN WEST FACE OF 8" OAK		17.88	58.7	
MK # 2	BILL BOARD "TROUT FARM"		19.40	63.6	
MK # 3	CENTER LINE HIGHWAY 65		10.06	33.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050228	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 217,941.2780		<b>Latitude</b> 36 17 31.1468280
<b>Easting (M)</b> 293,848.0670		<b>Longitude</b> 93 10 54.1564572
<b>Elevation (M)*</b> 340.191		<b>Ellipsoid Height (M):</b> 311.174
		<b>Geoid Height (M):</b> -29.017

  

<b>Northing (SFT)</b> 715,029.0096		<b>Location Description</b>
<b>Easting (SFT)</b> 964,066.5331		
<b>Elevation (SFT)*</b> 1,116.110		
<b>Convergence Angle</b> 0 41 15.4899330		
<b>Scale Factor</b> 1.000012125		
<b>Elevation Adjust. Factor</b> 0.9999466158		
<b>Combined Adjust. Factor</b> 0.9999587401		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POWER POLE		14.39	47.2	
MK # 2	END OF CURB		7.44	24.4	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050312	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	221,013.6571	
<b>Easting (M)</b>	292,144.3802	
<b>Elevation (M)*</b>	422.697	
<b>Northing (SFT)</b>	725,108.9733	
<b>Easting (SFT)</b>	958,477.0207	
<b>Elevation (SFT)*</b>	1,386.798	

  

<b>Convergence Angle</b>	0	41	56.0903831
<b>Scale Factor</b>	1.000018170		
<b>Elevation Adjust. Factor</b>	0.9999336695		
<b>Combined Adjust. Factor</b>	0.9999518383		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN NE FACE OF 2' ELM TREE		70.13	230.1
MK # 2	60D NAIL IN NW FACE OF 16" OAK TREE		79.91	262.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0503121	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 221,390.1119		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 292,120.3217		<b>Latitude</b> 36 19 22.3482468
<b>Elevation (M)*</b> 417.952		<b>Longitude</b> 93 12 5.0773212
<b>Northing (SFT)</b> 726,344.0588		<b>Ellipsoid Height (M):</b> 388.912
<b>Easting (SFT)</b> 958,398.0888		<b>Geoid Height (M):</b> -29.400
<b>Elevation (SFT)*</b> 1,371.231		<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 200px; width: 100%;"></div>
<b>Convergence Angle</b> 0 41 56.7587219		
<b>Scale Factor</b> 1.000018931		
<b>Elevation Adjust. Factor</b> 0.9999344140		
<b>Combined Adjust. Factor</b> 0.9999533438		

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 8" ELM TREE		16.02	52.6	
MK # 2	60D NAIL IN 4" HACKBERRY TREE		14.86	48.7	
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0503122	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 221,505.4593		<b>Latitude</b> 36 19 26.2655508
<b>Easting (M)</b> 292,564.5375		<b>Longitude</b> 93 11 47.3259120
<b>Elevation (M)*</b> 409.249		<b>Ellipsoid Height (M):</b> 380.206
		<b>Geoid Height (M):</b> -29.044

  

<b>Northing (SFT)</b> 726,722.4944		
<b>Easting (SFT)</b> 959,855.4868		
<b>Elevation (SFT)*</b> 1,342.678		

  

<b>Convergence Angle</b>	0	41	46.4291924
<b>Scale Factor</b>	1.000019176		
<b>Elevation Adjust. Factor</b>	0.9999357796		
<b>Combined Adjust. Factor</b>	0.9999549544		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN SW FACE OF 30" OAK TREE		28.00	91.9
MK # 2	60D NAIL IN NW FACE OF 24" OAK TREE		35.54	116.6
MK # 3				

  

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050314	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	221,708.6535	
<b>Easting (M)</b>	291,810.5909	
<b>Elevation (M)*</b>	419.104	
<b>Northing (SFT)</b>	727,389.1407	
<b>Easting (SFT)</b>	957,381.9136	
<b>Elevation (SFT)*</b>	1,375.010	

  

<b>Convergence Angle</b>	0	42	4.0747406
<b>Scale Factor</b>	1.000019571		
<b>Elevation Adjust. Factor</b>	0.9999342332		
<b>Combined Adjust. Factor</b>	0.9999538030		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO FENCE		1.28	4.2
MK # 2	TO CULVERT MARKER		29.86	97.9
MK # 3	TO CENTER LINE OF HWY. 65		11.42	37.5

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050316	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 222,244.8791		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,957.9589		<b>Latitude</b> 36 19 50.0122164
<b>Elevation (M)*</b> 411.837		<b>Longitude</b> 93 12 12.0048552
<b>Northing (SFT)</b> 729,148.4075		<b>Ellipsoid Height (M):</b> 382.789
<b>Easting (SFT)</b> 957,865.4035		<b>Geoid Height (M):</b> -29.048
<b>Elevation (SFT)*</b> 1,351.169		

  

<b>Convergence Angle</b> 0 42 0.7898479	<b>Scale Factor</b> 1.000020670	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "316" W. OF US 65 AND IN THE N 1/2 OF THE SW 1/4 OF SECTION 3, T19N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999353735	<b>Combined Adjust. Factor</b> 0.9999560422	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CULVERT MARKER		20.56	67.4	
MK # 2	TO EDGE OF HWY. 65		3.92	12.9	
MK # 3	TO FENCE LINE		1.80	5.9	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050317	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 222,435.8973		<b>Latitude</b> 36 19 56.3680272
<b>Easting (M)</b> 292,360.4278		<b>Longitude</b> 93 11 55.9624920
<b>Elevation (M)*</b> 410.691		<b>Ellipsoid Height (M):</b> 381.731
		<b>Geoid Height (M):</b> -29.052

  

<b>Northing (SFT)</b> 729,775.1064		<b>Location Description</b>
<b>Easting (SFT)</b> 959,185.8369		5/8" REBAR WITH ALUMINUM CAP STAMPED "318" IN SW 1/4 OF SE 1/4 OF SECTION 33, T20N, R21W.
<b>Elevation (SFT)*</b> 1,347.409		
<b>Convergence Angle</b> 0 41 51.4548107		
<b>Scale Factor</b> 1.000021072		
<b>Elevation Adjust. Factor</b> 0.9999355533		
<b>Combined Adjust. Factor</b> 0.9999566240		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO FENCE		0.78	2.6	
MK # 2	60D NAIL IN SOUTH FACE OF CORNER POS		11.56	37.9	
MK # 3	60D NAIL IN SW FACE OF 8" OAK TREE		10.94	35.9	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050318	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 223,283.8786		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,301.9227		<b>Latitude</b> 36 20 23.4558888
<b>Elevation (M)*</b> 413.687		<b>Longitude</b> 93 12 38.8185912
<b>Northing (SFT)</b> 732,557.1917		<b>Ellipsoid Height (M):</b> 384.634
<b>Easting (SFT)</b> 955,713.0581		<b>Geoid Height (M):</b> -29.054
<b>Elevation (SFT)*</b> 1,357.238		

  

<b>Convergence Angle</b> 0 42 16.3927375	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "318" IN SW 1/4 OF SE 1/4 OF SECTION 33, T20N, R21W.
<b>Scale Factor</b> 1.000022796	
<b>Elevation Adjust. Factor</b> 0.9999350832	
<b>Combined Adjust. Factor</b> 0.9999578778	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 6" CEDAR TREE		22.16	72.7	
MK # 2	60D NAIL SOUTH FACE OF 6" OAK TREE		19.40	63.7	
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>    
---	---------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050319	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	223,293.3792	
<b>Easting (M)</b>	291,792.2072	
<b>Elevation (M)*</b>	414.221	
<b>Northing (SFT)</b>	732,588.3616	
<b>Easting (SFT)</b>	957,321.5998	
<b>Elevation (SFT)*</b>	1,358.990	

  

<b>Convergence Angle</b>	0	42	4.9561558
<b>Scale Factor</b>	1.000022828		
<b>Elevation Adjust. Factor</b>	0.9999349994		
<b>Combined Adjust. Factor</b>	0.9999578260		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
5/8" REBAR WITH ALUMINUM CAP STAMPED "319" WHERE THE INTERSECTION OF SECTIONS 33 & 34 IN T20N, R21W AND SECTION 3 IN T19N, R21W.				

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	TO FENCE LINE			0.59	1.9	
MK # 2	TO EDGE OF HWY. 65			3.87	12.7	
MK # 3	TO 45 MPH ROAD SIGN			25.80	84.6	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050320	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	223,329.5638	
<b>Easting (M)</b>	292,210.5773	
<b>Elevation (M)*</b>	714.743	
<b>Northing (SFT)</b>	732,707.0772	
<b>Easting (SFT)</b>	958,694.2024	
<b>Elevation (SFT)*</b>	2,344.953	

  

<b>Convergence Angle</b>	0	41	55.2050359
<b>Scale Factor</b>	1.000022914		
<b>Elevation Adjust. Factor</b>	0.9998878461		
<b>Combined Adjust. Factor</b>	0.9999107575		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO FENCE		0.52	1.7	
MK # 2	TO CENTER OF CR #206		3.16	10.4	
MK # 3	60D NAIL IN EAST FACE OF 3" CEDAR		5.54	18.2	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050321	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 224,283.2736		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,007.5833		<b>Latitude</b> 36 20 55.7579940
<b>Elevation (M)*</b> 427.556		<b>Longitude</b> 93 12 51.1146468
<b>Northing (SFT)</b> 735,836.0401		<b>Ellipsoid Height (M):</b> 398.493
<b>Easting (SFT)</b> 954,747.3795		<b>Geoid Height (M):</b> -29.063
<b>Elevation (SFT)*</b> 1,402.740		

  

<b>Convergence Angle</b> 0 42 23.5478015	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "321" APPROX. 0.2 MILES NORTH OF CENTER OF SECTION 33, T20N, R21W. "NOTE - STATION 321 AND 323 ARE INTERVISIBLE."
<b>Scale Factor</b> 1.000024875	
<b>Elevation Adjust. Factor</b> 0.9999329070	
<b>Combined Adjust. Factor</b> 0.9999577804	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 30" PECAN TREE		30.39	99.7	
MK # 2	60D NAIL IN S FACE OF 6" OAK TREE		15.38	50.5	
MK # 3	60D NAIL IN NW FACE OF 12" OAK TREE		36.49	119.7	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  
---	-------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050322	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 224,556.8569		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,475.3411		<b>Latitude</b> 36 21 4.8195540
<b>Elevation (M)*</b> 414.419		<b>Longitude</b> 93 12 32.4919404
<b>Northing (SFT)</b> 736,733.6213		<b>Ellipsoid Height (M):</b> 385.351
<b>Easting (SFT)</b> 956,282.0149		<b>Geoid Height (M):</b> -29.068
<b>Elevation (SFT)*</b> 1,359.640		

  

<b>Convergence Angle</b> 0 42 12.7112649	<b>Scale Factor</b> 1.000025462	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "322" NEAR CENTER OF THE NE 1/4 OF SECTION 33 T20N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999349684	<b>Combined Adjust. Factor</b> 0.9999604287	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 6" POST		3.75	12.3	
MK # 2	60D NAIL IN "WRONE" MAILBOX		18.36	60.2	
MK # 3	TO CENTER OF CO. RD. 15		7.91	25.9	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050324	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 225,283.3341		<b>Latitude</b> 36 21 28.1851200
<b>Easting (M)</b> 290,972.5324		<b>Longitude</b> 93 12 53.0149824
<b>Elevation (M)*</b> 417.650		<b>Ellipsoid Height (M):</b> 388.577
		<b>Geoid Height (M):</b> -29.073

  

<b>Northing (SFT)</b> 739,117.0720		<b>Location Description</b>
<b>Easting (SFT)</b> 954,632.3834		5/8" REBAR WITH ALUMINUM CAP STAMPED "324" IN NE 1/4 OF THE SE 1/4 OF THE SW 1/4 OF SECTION 28, T20N, R21W.
<b>Elevation (SFT)*</b> 1,370.240		
<b>Convergence Angle</b> 0 42 24.6536052		
<b>Scale Factor</b> 1.000026986		
<b>Elevation Adjust. Factor</b> 0.9999344614		
<b>Combined Adjust. Factor</b> 0.9999614456		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D IN SE FACE OF 2' OAK		26.93	88.3	
MK # 2	60D IN W. FACE OF 15" ELM		27.23	89.3	
MK # 3	60D IN N. FACE OF 6' OAK		10.52	34.5	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <b>Ref Mon # 2</b> <b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050325	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	225,759.0535	
<b>Easting (M)</b>	290,138.0133	
<b>Elevation (M)*</b>	420.643	
<b>Northing (SFT)</b>	740,677.8280	
<b>Easting (SFT)</b>	951,894.4653	
<b>Elevation (SFT)*</b>	1,380.060	

  

<b>Convergence Angle</b>	0	42	44.2669447
<b>Scale Factor</b>	1.000027978		
<b>Elevation Adjust. Factor</b>	0.9999339918		
<b>Combined Adjust. Factor</b>	0.9999619679		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "325" EAST OF WEST 1/4 CORNER OF SECTION 28, T20N, R21W.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO FENCE		0.46	1.5	
MK # 2	60D NAIL IN NW FACE OF 6" EVERGREEN TREE		10.31	33.8	
MK # 3	TO CENTER OF TRACK RD.		3.95	12.9	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050326	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 225,692.1666		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,722.5118		<b>Latitude</b> 36 21 41.3470980
<b>Elevation (M)*</b> 422.344		<b>Longitude</b> 93 13 3.2448756
<b>Northing (SFT)</b> 740,458.3833		<b>Ellipsoid Height (M):</b> 393.269
<b>Easting (SFT)</b> 953,812.1075		<b>Geoid Height (M):</b> -29.075
<b>Elevation (SFT)*</b> 1,385.640		

  

<b>Convergence Angle</b> 0 42 30.6063711	<b>Scale Factor</b> 1.000027850	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "326" IN SW 1/4 OF THE SE 1/4 OF THE NW 1/4 OF SECTION 28, T20N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999337248	<b>Combined Adjust. Factor</b> 0.9999615730	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 2' OAK TREE		47.41	155.6	
MK # 2	60D NAIL IN NW FACE OF 12" OAK TREE		40.13	131.7	
MK # 3	TO CENTER OF SMALL EVERGREEN SHRUB		5.21	17.1	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  
---	-------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050327	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	226,592.7330	
<b>Easting (M)</b>	289,894.7024	
<b>Elevation (M)*</b>	407.238	
<b>Northing (SFT)</b>	743,412.9915	
<b>Easting (SFT)</b>	951,096.2028	
<b>Elevation (SFT)*</b>	1,336.080	

  

<b>Convergence Angle</b>	0	42	50.1878838
<b>Scale Factor</b>	1.000029761		
<b>Elevation Adjust. Factor</b>	0.9999360952		
<b>Combined Adjust. Factor</b>	0.9999658543		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 8" OAK TREE		24.98	81.9	
MK # 2	60D NAIL IN S FACE OF 10" OAK TREE		29.66	97.3	
MK # 3	60D NAIL SMALL ASH TREE		7.93	26.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050329	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	227,099.6964	
<b>Easting (M)</b>	289,553.8240	
<b>Elevation (M)*</b>	451.498	
<b>Northing (SFT)</b>	745,076.2539	
<b>Easting (SFT)</b>	949,977.8376	
<b>Elevation (SFT)*</b>	1,481.290	

  

<b>Convergence Angle</b>	0	42	58.2920975
<b>Scale Factor</b>	1.000030848		
<b>Elevation Adjust. Factor</b>	0.9999291503		
<b>Combined Adjust. Factor</b>	0.9999599961		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN BASE OF OAK TREE		16.51	54.2	
<b>MK # 2</b>	TO CENTER OF ROAD		3.66	12.0	
<b>MK # 3</b>	60D NAIL IN BASE OF ASH TREE		17.50	57.4	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050330	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	227,378.3865	
<b>Easting (M)</b>	290,002.2691	
<b>Elevation (M)*</b>	455.457	
<b>Northing (SFT)</b>	745,990.5897	
<b>Easting (SFT)</b>	951,449.1112	
<b>Elevation (SFT)*</b>	1,494.279	

  

<b>Convergence Angle</b>	0	42	47.9055213
<b>Scale Factor</b>	1.000031466		
<b>Elevation Adjust. Factor</b>	0.9999285291		
<b>Combined Adjust. Factor</b>	0.9999599928		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FLAGGED 60D NAIL IN GROUND		5.69	18.7	
MK # 2	60D NAIL IN W FACE OF 2' ELM TREE		38.29	125.6	
MK # 3	FLAGGED 60D NAIL IN GROUND		7.11	23.3	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050331	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 228,365.2051		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 289,902.4772		<b>Latitude</b> 36 23 7.7272620
<b>Elevation (M)*</b> 460.965		<b>Longitude</b> 93 13 37.4701224
<b>Northing (SFT)</b> 749,228.1771		<b>Ellipsoid Height (M):</b> 431.867
<b>Easting (SFT)</b> 951,121.7106		<b>Geoid Height (M):</b> -29.098
<b>Elevation (SFT)*</b> 1,512.349		

  

<b>Convergence Angle</b> 0 42 50.5220124	<b>Scale Factor</b> 1.000033623	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "331" IN THE SS. E 1/4 OF SECTION 17, T20N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999276648	<b>Combined Adjust. Factor</b> 0.9999612854	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CORNER POST		3.64	11.9	
MK # 2	60D NAIL IN NW FACE OF 12" ELM TREE		17.05	56.0	
MK # 3	60D NAIL IN CORNER POST		14.31	46.9	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050332	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 228,232.9240		<b>Latitude</b> 36 23 3.5831076
<b>Easting (M)</b> 290,266.3791		<b>Longitude</b> 93 13 22.8047808
<b>Elevation (M)*</b> 459.109		<b>Ellipsoid Height (M):</b> 430.011
		<b>Geoid Height (M):</b> -29.098

  

<b>Northing (SFT)</b> 748,794.1848		<b>Location Description</b>
<b>Easting (SFT)</b> 952,315.6121		5/8" REBAR WITH ALUMINUM CAP STAMPED "332' IN THE SE 1/4 OF THE SE 1/4 OF SECTION 17, T20N, R 21W. - POINT IS NW OF CORNER 17, 16, 20, 21
<b>Elevation (SFT)*</b> 1,506.260		
<b>Convergence Angle</b> 0 42 41.9882629		
<b>Scale Factor</b> 1.000033342		
<b>Elevation Adjust. Factor</b> 0.9999279560		
<b>Combined Adjust. Factor</b> 0.9999612956		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN W FACE OF 7" DEAD OAK		37.04	121.5	
MK # 2	60D NAIL IN N FACE OF 4" OAK		40.44	132.7	
MK # 3	60D NAIL IN E FACE OF 2" OAK		53.47	175.4	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050333	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 229,256.6616		<b>Latitude</b> 36 23 36.6943848
<b>Easting (M)</b> 290,024.8937		<b>Longitude</b> 93 13 33.0041604
<b>Elevation (M)*</b> 428.641		<b>Ellipsoid Height (M):</b> 399.533
		<b>Geoid Height (M):</b> -29.108

  

<b>Northing (SFT)</b> 752,152.8973		
<b>Easting (SFT)</b> 951,523.3387		
<b>Elevation (SFT)*</b> 1,406.300		

  

<b>Convergence Angle</b>	0	42	47.9232730
<b>Scale Factor</b>	1.000035599		
<b>Elevation Adjust. Factor</b>	0.9999327368		
<b>Combined Adjust. Factor</b>	0.9999683334		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SE FACE OF LEANING 2' OAK		41.44	136.0
<b>MK # 2</b>	60D NAIL IN W FACE OF 2' OAL TREE		72.09	236.5
<b>MK # 3</b>	60D ANIL IN E FACE OF 18" ELM TREE		67.35	220.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050334	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 229,056.6061		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,511.9611		<b>Latitude</b> 36 23 30.4011312
<b>Elevation (M)*</b> 450.712		<b>Longitude</b> 93 13 13.3619736
<b>Northing (SFT)</b> 751,496.5485		<b>Ellipsoid Height (M):</b> 421.604
<b>Easting (SFT)</b> 953,121.3257		<b>Geoid Height (M):</b> -29.108
<b>Elevation (SFT)*</b> 1,478.711		

  

<b>Convergence Angle</b> 0 42 36.4935016	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "334" WEST OF CENTER OF THE NW 1/4 OF SECTION 16, T20N, R21W. - POINT IS IN OZARK RUE CAMPGROUND ON THE SOUTH END. NOTE- 333 AND 334 ARE INTERVISIBLE.
<b>Scale Factor</b> 1.000035168	
<b>Elevation Adjust. Factor</b> 0.9999292736	
<b>Combined Adjust. Factor</b> 0.9999644391	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CENTER OF TRACK RD.		17.11	56.1	
MK # 2	60S NAIL IN OAK TREE		18.18	59.6	
MK # 3	60D NAIL IN SE FACE OF POWER POLE		31.04	101.8	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050335	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	229,831.0746	
<b>Easting (M)</b>	289,964.7529	
<b>Elevation (M)*</b>	438.084	
<b>Northing (SFT)</b>	754,037.4506	
<b>Easting (SFT)</b>	951,326.0268	
<b>Elevation (SFT)*</b>	1,437.281	

  

<b>Convergence Angle</b>	0	42	49.4944928
<b>Scale Factor</b>	1.000036878		
<b>Elevation Adjust. Factor</b>	0.9999312551		
<b>Combined Adjust. Factor</b>	0.9999681305		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "338" IN THE SW 1/4 OF THE SE 1/4 OF SECTION 8 OF T20N, R21W.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF 16" OAK TREE		22.48	73.7	
MK # 2	60D NAIL IN WEST FACE OF 10" OAK TREE		44.85	147.1	
MK # 3	TO CENTER OF STATE HWY. 396		36.18	118.7	

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;">           Ref Mon # 1 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;">           Ref Mon # 2 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;">           Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050336	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 229,674.2453		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,377.8582		<b>Latitude</b> 36 23 50.3825388
<b>Elevation (M)*</b> 449.239		<b>Longitude</b> 93 13 19.0500456
<b>Northing (SFT)</b> 753,522.9198		<b>Ellipsoid Height (M):</b> 420.127
<b>Easting (SFT)</b> 952,681.3564		<b>Geoid Height (M):</b> -29.113
<b>Elevation (SFT)*</b> 1,473.878		

  

<b>Convergence Angle</b> 0 42 39.8033857	<b>Scale Factor</b> 1.000036539	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "336" EAST OF US HWY. 65 NEAR BOUNDARY OF SECTIONS 8 & 9 SOUTH OF 1/4 CORNER, IN T20N, R 21W.
<b>Elevation Adjust. Factor</b> 0.9999295047	<b>Combined Adjust. Factor</b> 0.9999660411	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO FENCE LINE		8.29	27.2	
MK # 2	NE CORNER OF SOUTHMOST GUARDRAIL POST		17.89	58.7	
MK # 3	TO EDGE OF US HWY. 65		1.75	5.7	

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050338	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	230,580.7449	
<b>Easting (M)</b>	290,099.8800	
<b>Elevation (M)*</b>	425.919	
<b>Northing (SFT)</b>	756,496.9939	
<b>Easting (SFT)</b>	951,769.3563	
<b>Elevation (SFT)*</b>	1,397.369	

  

<b>Convergence Angle</b>	0	42	46.5572068
<b>Scale Factor</b>	1.000038566		
<b>Elevation Adjust. Factor</b>	0.9999331639		
<b>Combined Adjust. Factor</b>	0.9999717273		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "338" IN SW 1/4 OF THE SE 1/4 OF SECTION 8 OF T20N, R21W.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAGGED 60D NAIL IN GROUND		6.29	20.6
MK # 2	FLAGGED 60D NAIL IN GROUND		7.24	23.7
MK # 3	60D NAIL IN E FACE OF 18" OAK TREE		76.83	252.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050339	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 231,293.9690		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 289,118.7671		<b>Latitude</b> 36 24 42.4140012
<b>Elevation (M)*</b> 442.710		<b>Longitude</b> 93 14 10.3871184
<b>Northing (SFT)</b> 758,836.9633		<b>Ellipsoid Height (M):</b> 413.877
<b>Easting (SFT)</b> 948,550.4884		<b>Geoid Height (M):</b> -29.123
<b>Elevation (SFT)*</b> 1,452.458		

  

<b>Convergence Angle</b> 0 43 9.6763836	<b>Scale Factor</b> 1.000040154	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "339" IN FAR SOUTHERN PART OF SW 1/4 OF SECTION 5, T20N, R21W.
<b>Elevation Adjust. Factor</b> 0.9999305292	<b>Combined Adjust. Factor</b> 0.9999706804	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CENTER OF CO. RD. 18		4.17	13.7	
MK # 2	60D NAIL IN N FACE OF 8" DOUBLE ELM		21.02	68.9	
MK # 3	60D NAIL IN WEST FACE OF 7" ASH TREE		14.40	47.2	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  
---	-------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050340	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	231,485.3270	
<b>Easting (M)</b>	289,741.9462	
<b>Elevation (M)*</b>	425.678	
<b>Northing (SFT)</b>	759,464.7770	
<b>Easting (SFT)</b>	950,595.0352	
<b>Elevation (SFT)*</b>	1,396.579	

  

<b>Convergence Angle</b>	0	42	55.1790924
<b>Scale Factor</b>	1.000040607		
<b>Elevation Adjust. Factor</b>	0.9999332017		
<b>Combined Adjust. Factor</b>	0.9999738060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN SW FACE OF 12" WALNUT		53.04	174.0	
<b>MK # 2</b>	60D NAIL IN NE FACE OF 10" OAK TREE		26.43	86.7	
<b>MK # 3</b>	60D NAIL IN SE FACE OF 5" EVERGREEN		11.19	36.7	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050343	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	232,242.8659	
<b>Easting (M)</b>	288,894.7044	
<b>Elevation (M)*</b>	480.362	
<b>Northing (SFT)</b>	761,950.1359	
<b>Easting (SFT)</b>	947,815.3760	
<b>Elevation (SFT)*</b>	1,575.988	

  

<b>Convergence Angle</b>	0	43	15.1877297
<b>Scale Factor</b>	1.000042316		
<b>Elevation Adjust. Factor</b>	0.9999246212		
<b>Combined Adjust. Factor</b>	0.9999669340		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
5/8" REBAR WITH ALUMINUM CAP STAMPED "343" WEST OF EAST 1/4 CORNER OF SECTION 5, T20N, R21W, POINT IS 19.15' EAST OF CENTERLINE OF CO. RD. 18 AND WEST OF RED BARN OWNED BY BREWER'S.			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
MK # 1	TO GATE POST		9.42	30.9	<b>AZ Mark Station</b>
MK # 2	60D NAIL IN POWER POLE #37		25.63	84.1	<b>Geodetic Azimuth</b>
MK # 3	TO CENTER OF CO. RD. #18		5.84	19.1	<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050344	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 232,264.6591		<b>Latitude</b> 36 25 14.0446164
<b>Easting (M)</b> 289,470.6795		<b>Longitude</b> 93 13 56.7516792
<b>Elevation (M)*</b> 433.987		<b>Ellipsoid Height (M):</b> 404.852
		<b>Geoid Height (M):</b> -29.135

  

<b>Northing (SFT)</b> 762,021.6357		
<b>Easting (SFT)</b> 949,705.0543		
<b>Elevation (SFT)*</b> 1,423.839		

  

<b>Convergence Angle</b>	0	43	1.7419335
<b>Scale Factor</b>	1.000042383		
<b>Elevation Adjust. Factor</b>	0.9999318979		
<b>Combined Adjust. Factor</b>	0.9999742780		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN S FACE OF 12" OAK TREE		87.48	287.0
<b>MK # 2</b>	FLAGGED 60D NAIL IN GROUND		5.18	17.0
<b>MK # 3</b>	60D NAIL IN E FACE OF 6" OAK TREE		37.16	121.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050347	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	233,183.9331	
<b>Easting (M)</b>	288,879.9081	
<b>Elevation (M)*</b>	500.461	
<b>Northing (SFT)</b>	765,037.6205	
<b>Easting (SFT)</b>	947,766.8318	
<b>Elevation (SFT)*</b>	1,641.929	

  

<b>Convergence Angle</b>	0	43	15.8099214
<b>Scale Factor</b>	1.000044488		
<b>Elevation Adjust. Factor</b>	0.9999214675		
<b>Combined Adjust. Factor</b>	0.9999659520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "347" IN WEST 1/2 OF SW 1/4 OF SECTION 32, T20N, R21W.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO FENCE LINE		0.93	3.0	
MK # 2	TO CENTER OF CO RD. 18		6.84	22.4	
MK # 3	TO CGS REFERENCE MARK		24.71	81.1	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050349	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,053.2983	
<b>Easting (M)</b>	289,206.9996	
<b>Elevation (M)*</b>	429.506	
<b>Northing (SFT)</b>	767,889.8628	
<b>Easting (SFT)</b>	948,839.9645	
<b>Elevation (SFT)*</b>	1,409.138	

  

<b>Convergence Angle</b>	0	43	8.4245762
<b>Scale Factor</b>	1.000046525		
<b>Elevation Adjust. Factor</b>	0.9999326010		
<b>Combined Adjust. Factor</b>	0.9999791229		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050350	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,069.9316	
<b>Easting (M)</b>	289,586.8009	
<b>Elevation (M)*</b>	401.642	
<b>Northing (SFT)</b>	767,944.4339	
<b>Easting (SFT)</b>	950,086.0293	
<b>Elevation (SFT)*</b>	1,317.720	

  

<b>Convergence Angle</b>	0	42	59.5571757
<b>Scale Factor</b>	1.000046575		
<b>Elevation Adjust. Factor</b>	0.9999369732		
<b>Combined Adjust. Factor</b>	0.9999835453		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	TO EAST SIDE OF METAL GATE		34.91	114.5	
<b>MK # 2</b>	TO FENCE LINE		6.63	21.8	
<b>MK # 3</b>	60D NAIL IN N FACE OF 12" PINE TREE		27.80	91.2	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0503501	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 233,786.8924		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 289,843.1216		<b>Latitude</b> 36 26 3.5739996
<b>Elevation (M)*</b> 415.598		<b>Longitude</b> 93 13 42.5653824
<b>Northing (SFT)</b> 767,015.8295		<b>Ellipsoid Height (M):</b> 386.448
<b>Easting (SFT)</b> 950,926.9748		<b>Geoid Height (M):</b> -29.151
<b>Elevation (SFT)*</b> 1,363.508		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> 0 42 53.4869397		
<b>Scale Factor</b> 1.000045920		
<b>Elevation Adjust. Factor</b> 0.9999347834		
<b>Combined Adjust. Factor</b> 0.9999807004		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2					Grid Azimuth	
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;">           Ref Mon # 1 <input style="width: 150px;" type="text"/>            Ref Mon # 2 <input style="width: 150px;" type="text"/>            Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050351	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,872.5291	
<b>Easting (M)</b>	289,648.9798	
<b>Elevation (M)*</b>	415.519	
<b>Northing (SFT)</b>	770,577.6226	
<b>Easting (SFT)</b>	950,290.0279	
<b>Elevation (SFT)*</b>	1,363.249	

  

<b>Convergence Angle</b>	0	42	58.3390323
<b>Scale Factor</b>	1.000048465		
<b>Elevation Adjust. Factor</b>	0.9999347958		
<b>Combined Adjust. Factor</b>	0.9999832576		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN E FACE OF TREE		32.48	106.6
<b>MK # 2</b>	60D NAIL IN S FACE OF LARGE OAK TREE		33.95	111.4
<b>MK # 3</b>	60D NAIL IN S FACE OF LARGE OAK TREE		29.76	97.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050352	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,845.9803	
<b>Easting (M)</b>	290,012.0291	
<b>Elevation (M)*</b>	416.735	
<b>Northing (SFT)</b>	770,490.5204	
<b>Easting (SFT)</b>	951,481.1321	
<b>Elevation (SFT)*</b>	1,367.238	

  

<b>Convergence Angle</b>	0	42	49.8495781
<b>Scale Factor</b>	1.000048413		
<b>Elevation Adjust. Factor</b>	0.9999346050		
<b>Combined Adjust. Factor</b>	0.9999830148		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN TREE		15.69	51.5	
MK # 2	60D NAIL IN GATE POST		12.45	40.8	
MK # 3	TO FENCE LINE		0.69	2.3	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050353	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	235,709.6237	
<b>Easting (M)</b>	290,033.9374	
<b>Elevation (M)*</b>	411.365	
<b>Northing (SFT)</b>	773,323.9904	
<b>Easting (SFT)</b>	951,553.0096	
<b>Elevation (SFT)*</b>	1,349.620	

  

<b>Convergence Angle</b>	0	42	49.5891187
<b>Scale Factor</b>	1.000050463		
<b>Elevation Adjust. Factor</b>	0.9999354476		
<b>Combined Adjust. Factor</b>	0.9999859073		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN E FACE OF 8" ELM TREE		27.37	89.8	
<b>MK # 2</b>	60D NAIL IN NW FACE OF CORNER POST		39.91	130.9	
<b>MK # 3</b>	60D NAIL IN N FACE OF 6" ELM TREE		36.46	119.6	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050354	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	235,580.4102	
<b>Easting (M)</b>	290,379.8349	
<b>Elevation (M)*</b>	411.273	
<b>Northing (SFT)</b>	772,900.0625	
<b>Easting (SFT)</b>	952,687.8417	
<b>Elevation (SFT)*</b>	1,349.318	

  

<b>Convergence Angle</b>	0	42	41.4698326
<b>Scale Factor</b>	1.000050166		
<b>Elevation Adjust. Factor</b>	0.9999354620		
<b>Combined Adjust. Factor</b>	0.9999856248		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
5/8" REBAR WITH ALUMINUM CAP STAMPED "354" EAST OF CO. RD. 18 APPROX. 0.25 MILES SOUTH OF SECTION CORNER 20 21 IN T21N, R21W.			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
<b>MK # 1</b>	60D NAIL IN NW FACE OF 12" ELM TREE		68.40	224.4	
<b>MK # 2</b>	TO FENCE LINE		10.23	33.6	
<b>MK # 3</b>	60D NAIL IN OAK TREE		21.47	70.4	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050377	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	236,661.5525	
<b>Easting (M)</b>	290,345.1881	
<b>Elevation (M)*</b>	331.565	
<b>Northing (SFT)</b>	776,447.1102	
<b>Easting (SFT)</b>	952,574.1713	
<b>Elevation (SFT)*</b>	1,087.810	

  

<b>Convergence Angle</b>	0	42	42.5931763
<b>Scale Factor</b>	1.000052753		
<b>Elevation Adjust. Factor</b>	0.9999479693		
<b>Combined Adjust. Factor</b>	1.0000007196		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN TREE		46.58	152.8
MK # 2	CHISELED X IN CENTER OF ROCK		13.12	43.0
MK # 3	60D NAIL IN TREE		62.23	204.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050378	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 236,428.7888		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 291,064.6545		<b>Latitude</b> 36 27 29.7633096
<b>Elevation (M)*</b> 314.231		<b>Longitude</b> 93 12 54.8374356
<b>Northing (SFT)</b> 775,683.4513		<b>Ellipsoid Height (M):</b> 285.050
<b>Easting (SFT)</b> 954,934.6206		<b>Geoid Height (M):</b> -29.181
<b>Elevation (SFT)*</b> 1,030.940		

  

<b>Convergence Angle</b> 0 42 25.7140891	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP STAMPED "378" IN SW CORNER OF THE INTERSECTION OF COUNTY ROADS 18 AND 22 POINT IS LOCATED IN SW 1/4 OF THE NE 1/4 OF THE SW 1/4 OF SECTION 21, T21N, R21W.
<b>Scale Factor</b> 1.000052215	
<b>Elevation Adjust. Factor</b> 0.9999506893	
<b>Combined Adjust. Factor</b> 1.0000029018	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN W FACE OF 4" EVERGREEN		11.04	36.2	
MK # 2	60D NAIL IN N FACE OF POWER POLE #28		39.87	130.8	
MK # 3	60D NAIL IN CENTER OF 12" STUMP		30.59	100.4	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050379	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	237,363.1312	
<b>Easting (M)</b>	290,256.0963	
<b>Elevation (M)*</b>	382.427	
<b>Northing (SFT)</b>	778,748.8729	
<b>Easting (SFT)</b>	952,281.8759	
<b>Elevation (SFT)*</b>	1,254.679	

  

<b>Convergence Angle</b>	0	42	44.8788717
<b>Scale Factor</b>	1.000054446		
<b>Elevation Adjust. Factor</b>	0.9999399883		
<b>Combined Adjust. Factor</b>	0.9999944311		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 10" OAK TREE		34.07	111.8	
MK # 2	60D NAIL IN SE FACE OF 10" EVERGREEN		44.45	145.8	
MK # 3	SW CORNER OF SOUTHMOST CHICKEN BARN		43.82	143.7	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050380	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	237,524.3944	
<b>Easting (M)</b>	290,960.4444	
<b>Elevation (M)*</b>	392.626	
<b>Northing (SFT)</b>	779,277.9506	
<b>Easting (SFT)</b>	954,592.7247	
<b>Elevation (SFT)*</b>	1,288.140	

  

<b>Convergence Angle</b>	0	42	28.4654499
<b>Scale Factor</b>	1.000054859		
<b>Elevation Adjust. Factor</b>	0.9999383880		
<b>Combined Adjust. Factor</b>	0.9999932436		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "380" SOUTH OF COUNTY ROAD 22 IN THE NORTH 1/2 OF THE NE 1/4 OF SECTION 21, T21N, R21W.				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 10' ELM TREE		21.60	70.9	
MK # 2	60D NAIL NW FACE OF POWER POLE #3		17.08	56.0	
MK # 3	60D NAIL IN NE FACE OF 6" BLACKJACK TR		14.63	48.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0503801	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 237,952.5701		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,952.5097		<b>Latitude</b> 36 28 19.1462844
<b>Elevation (M)*</b> 396.509		<b>Longitude</b> 93 13 0.0968412
<b>Northing (SFT)</b> 780,682.7237		<b>Ellipsoid Height (M):</b> 367.315
<b>Easting (SFT)</b> 954,566.6922		<b>Geoid Height (M):</b> -29.194
<b>Elevation (SFT)*</b> 1,300.880		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> 0 42 28.7745326		
<b>Scale Factor</b> 1.000055901		
<b>Elevation Adjust. Factor</b> 0.9999377787		
<b>Combined Adjust. Factor</b> 0.9999936762		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2					Grid Azimuth	
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;">           Ref Mon # 1 <input style="width: 150px;" type="text"/>            Ref Mon # 2 <input style="width: 150px;" type="text"/>            Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050382	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	238,176.6419	
<b>Easting (M)</b>	290,302.5935	
<b>Elevation (M)*</b>	387.843	
<b>Northing (SFT)</b>	781,417.8660	
<b>Easting (SFT)</b>	952,434.4255	
<b>Elevation (SFT)*</b>	1,272.448	

  

<b>Convergence Angle</b>	0	42	44.0286088
<b>Scale Factor</b>	1.000056428		
<b>Elevation Adjust. Factor</b>	0.9999391385		
<b>Combined Adjust. Factor</b>	0.9999955631		

  

<b>SUPERCEDED CONTROL</b>																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td colspan="3"></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td colspan="3"></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td colspan="3"></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td colspan="3"></td> </tr> </table>	<b>Horizontal Datum</b>				<b>Latitude</b>				<b>Longitude</b>				<b>Ellipsoid Height:</b>				<b>Grid Northing (Meters)</b>				<b>Grid Easting (Meters)</b>			
<b>Horizontal Datum</b>																								
<b>Latitude</b>																								
<b>Longitude</b>																								
<b>Ellipsoid Height:</b>																								
<b>Grid Northing (Meters)</b>																								
<b>Grid Easting (Meters)</b>																								

  

<b>Location Description</b>
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "382" IN SW 1/4 OF THE NE 1/4 OF THE SE 1/4 OF SECTION 17, T21N, R21W/

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> TO CENTER OF TRACK ROAD		4.89	16.0	
<b>MK # 2</b> 60D NAIL IN NW FACE OF 30" BALCKJACK		60.52	198.5	
<b>MK # 3</b> 60D NAIL IN N FACE OF 2" BLACKJACK		59.69	195.8	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050387	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	239,187.4831	
<b>Easting (M)</b>	290,732.0542	
<b>Elevation (M)*</b>	407.698	
<b>Northing (SFT)</b>	784,734.2675	
<b>Easting (SFT)</b>	953,843.4145	
<b>Elevation (SFT)*</b>	1,337.589	

  

<b>Convergence Angle</b>	0	42	34.2841442
<b>Scale Factor</b>	1.000058926		
<b>Elevation Adjust. Factor</b>	0.9999360230		
<b>Combined Adjust. Factor</b>	0.9999949452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
5/8" REBAR WITH ALUMINUM CAP DRIVEN FLUSH STAMPED "387" IN NW 1/4 OF THE NW 1/4 OF SECTION 16, T21N, R21W.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN TOP OF STUMP		23.18	76.0	
MK # 2	60D NAIL IN S FACE OF 2' PINE		59.18	194.1	
MK # 3	60D NAIL IN SE FACE OF 12" LEANING ELM		77.11	253.0	

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;">           Ref Mon # 1 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;">           Ref Mon # 2 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;">           Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0503871	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	239,525.8350	
<b>Easting (M)</b>	290,935.2335	
<b>Elevation (M)*</b>	419.204	
<b>Northing (SFT)</b>	785,844.3437	
<b>Easting (SFT)</b>	954,510.0119	
<b>Elevation (SFT)*</b>	1,375.338	

  

<b>Convergence Angle</b>	0	42	29.6328040
<b>Scale Factor</b>	1.000059770		
<b>Elevation Adjust. Factor</b>	0.9999342176		
<b>Combined Adjust. Factor</b>	0.9999939836		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050394	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 239,614.8904		<b>Latitude</b> 36 29 12.7712004
<b>Easting (M)</b> 290,215.3984		<b>Longitude</b> 93 13 30.5320116
<b>Elevation (M)*</b> 410.996		<b>Ellipsoid Height (M):</b> 381.790
		<b>Geoid Height (M):</b> -29.206

  

<b>Northing (SFT)</b> 786,136.5196	<b>Easting (SFT)</b> 952,148.3529	<b>Location Description</b> 5/8" REBAR WITH ALUMINUM CAP FLUSH DRIVEN AND STAMPED "394" NEAR CENTER OF SECTION 8, T21N, R21W.
<b>Elevation (SFT)*</b> 1,348.409		

  

<b>Convergence Angle</b> 0 42 46.4847317	<b>Scale Factor</b> 1.000059969
<b>Elevation Adjust. Factor</b> 0.9999355055	<b>Combined Adjust. Factor</b> 0.9999954706

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 6" PINE TREE		31.58	103.6	
MK # 2	60D NAIL IN SW FACE OF 18" BLACKJACK		32.70	107.3	
MK # 3	60D NAIL IN NE FACE OF 10" DBLE. OAK		45.74	150.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050395	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Brial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	239,813.6429	
<b>Easting (M)</b>	290,648.4304	
<b>Elevation (M)*</b>	417.973	
<b>Northing (SFT)</b>	786,788.5934	
<b>Easting (SFT)</b>	953,569.0587	
<b>Elevation (SFT)*</b>	1,371.300	

  

<b>Convergence Angle</b>	0	42	36.4201656
<b>Scale Factor</b>	1.000060476		
<b>Elevation Adjust. Factor</b>	0.9999344107		
<b>Combined Adjust. Factor</b>	0.9999948827		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "395" IN CLEARING IN THE NW 1/4 OF THE SW 1/4 OF SECTION 9, T21N, R21W.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SE FACE OF 10" EVERGREEN		28.16	92.4
<b>MK # 2</b>	60D NAIL IN N FACE OF 8" DBLE. PINE		21.18	69.5
<b>MK # 3</b>	60D NAIL IN E FACE OF 2' PINE TREE		21.63	70.9

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050397	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	240,084.0379	
<b>Easting (M)</b>	290,937.5628	
<b>Elevation (M)*</b>	410.993	
<b>Northing (SFT)</b>	787,675.7143	
<b>Easting (SFT)</b>	954,517.6540	
<b>Elevation (SFT)*</b>	1,348.400	

  

<b>Convergence Angle</b>	0	42	29.7396575
<b>Scale Factor</b>	1.000061158		
<b>Elevation Adjust. Factor</b>	0.9999355060		
<b>Combined Adjust. Factor</b>	0.9999966600		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN E FACE OF 15" ELM		15.20	49.9	
<b>MK # 2</b>	60D NAIL IN SW FACE OF 7" PINE TREE		21.52	70.6	
<b>MK # 3</b>	60D NAIL IN N FACE OF 5" PINE TREE		25.18	82.6	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050399	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	240,475.5010	
<b>Easting (M)</b>	290,492.4134	
<b>Elevation (M)*</b>	413.526	
<b>Northing (SFT)</b>	788,960.0395	
<b>Easting (SFT)</b>	953,057.1930	
<b>Elevation (SFT)*</b>	1,356.710	

  

<b>Convergence Angle</b>	0	42	40.2592034
<b>Scale Factor</b>	1.000062122		
<b>Elevation Adjust. Factor</b>	0.9999351085		
<b>Combined Adjust. Factor</b>	0.9999972265		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO HWY. 65 SIGN		9.89	32.4
<b>MK # 2</b>	TO SIGN 203		48.36	158.7
<b>MK # 3</b>	TO CENTER OF US HWY. 65		10.65	34.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050400	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation Services	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 240,897.1471		<b>Latitude</b> 36 29 54.2788080
<b>Easting (M)</b> 290,004.4249		<b>Longitude</b> 93 13 39.6491340
<b>Elevation (M)*</b> 416.857		<b>Ellipsoid Height (M):</b> 387.642
		<b>Geoid Height (M):</b> -29.216

  

<b>Northing (SFT)</b> 790,343.3901		
<b>Easting (SFT)</b> 951,456.1840		
<b>Elevation (SFT)*</b> 1,367.638		

  

<b>Convergence Angle</b> 0 42 51.7899773		
<b>Scale Factor</b> 1.000063164		
<b>Elevation Adjust. Factor</b> 0.9999345858		
<b>Combined Adjust. Factor</b> 0.9999977457		

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Reference Marks</b>				
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>	
			<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>	TO BASE OF STOP SIGN		14.26	46.8
<b>MK # 2</b>	TO CENTER OF OLD US HWY. 65		7.86	25.8
<b>MK # 3</b>	60D NAIL IN POST		4.62	15.2

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>Comments</b></td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	<b>Comments</b>	
<b>Comments</b>			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0504011	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
---------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	240,084.0166	
<b>Easting (M)</b>	290,905.7630	
<b>Elevation (M)*</b>	417.549	
<b>Northing (SFT)</b>	787,675.6445	
<b>Easting (SFT)</b>	954,413.3241	
<b>Elevation (SFT)*</b>	1,369.909	

  

<b>Convergence Angle</b>	0	42	30.4830145
<b>Scale Factor</b>	1.000061157		
<b>Elevation Adjust. Factor</b>	0.9999344772		
<b>Combined Adjust. Factor</b>	0.9999956302		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050402	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	223,285.8402	
<b>Easting (M)</b>	290,830.5413	
<b>Elevation (M)*</b>	385.926	
<b>Northing (SFT)</b>	732,563.6274	
<b>Easting (SFT)</b>	954,166.5342	
<b>Elevation (SFT)*</b>	1,266.159	

  

<b>Convergence Angle</b>	0	42	27.3915381
<b>Scale Factor</b>	1.000022788		
<b>Elevation Adjust. Factor</b>	0.9999394393		
<b>Combined Adjust. Factor</b>	0.9999622259		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
5/8" REBAR WITH ALUMINUM CAP STAMPED "402" SET APPROX. 110' SOUTH FROM DIRT ROAD AND APPROX. 40' EAST OF POND STATION IS LOCATED NEAR THE SOUTH 1/4 CORNER OF SECTION 33, T20N, R21W.				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 14" ELM TREE		33.20	108.9	
MK # 2	60D NAIL IN E FACE OF 24" DEAD ELM		25.40	83.3	
MK # 3	60D ANIL I S FACE OF 8" OAK TREE		33.15	108.7	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050403	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Bureau of Transportation	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	--	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 223,953.0431		<b>Latitude</b> 36 20 44.8660104
<b>Easting (M)</b> 290,559.6627		<b>Longitude</b> 93 13 8.9125896
<b>Elevation (M)*</b> 400.648		<b>Ellipsoid Height (M):</b> 371.591
<b>Northing (SFT)</b> 734,752.6089		<b>Geoid Height (M):</b> -29.057
<b>Easting (SFT)</b> 953,277.8267		
<b>Elevation (SFT)*</b> 1,314.459		

  

<b>Convergence Angle</b>	0	42	33.9044089
<b>Scale Factor</b>	1.000024171		
<b>Elevation Adjust. Factor</b>	0.9999371292		
<b>Combined Adjust. Factor</b>	0.9999612987		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN S FACE OF 3" TREE		13.59	44.6
<b>MK # 2</b>	60D NAIL IN NW FACE OF 2" OAK		12.10	39.7
<b>MK # 3</b>	60D NAIL IN N FACE OF 2" OAK		7.56	24.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050404	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	225,060.0592	
<b>Easting (M)</b>	290,102.5397	
<b>Elevation (M)*</b>	391.726	
<b>Northing (SFT)</b>	738,384.5442	
<b>Easting (SFT)</b>	951,778.0823	
<b>Elevation (SFT)*</b>	1,285.188	

  

<b>Convergence Angle</b>	0	42	44.8919749
<b>Scale Factor</b>	1.000026490		
<b>Elevation Adjust. Factor</b>	0.9999385292		
<b>Combined Adjust. Factor</b>	0.9999650176		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO GATE POST		6.75	22.1	
MK # 2	60D NAIL IN S FACE OF WOOD POST		8.37	27.4	
MK # 3	2ND T POST W OF WOODEN POST		11.44	37.5	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050405	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> Aerial Data Service	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	225,738.5125	
<b>Easting (M)</b>	289,820.3703	
<b>Elevation (M)*</b>	406.991	
<b>Northing (SFT)</b>	740,610.4364	
<b>Easting (SFT)</b>	950,852.3316	
<b>Elevation (SFT)*</b>	1,335.270	

  

<b>Convergence Angle</b>	0	42	51.6742418
<b>Scale Factor</b>	1.000027925		
<b>Elevation Adjust. Factor</b>	0.9999361339		
<b>Combined Adjust. Factor</b>	0.9999640571		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 12" OAK TREE		18.84	61.8	
MK # 2	60D NAIL IN N FACE OF 24" OAK		23.10	75.8	
MK # 3	60D NAIL IN SE FACE OF 24" OAK		21.52	70.6	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050406	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
--------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	226,896.5525	
<b>Easting (M)</b>	288,211.6674	
<b>Elevation (M)*</b>	445.597	
<b>Northing (SFT)</b>	744,409.7727	
<b>Easting (SFT)</b>	945,574.4455	
<b>Elevation (SFT)*</b>	1,461.929	

  

<b>Convergence Angle</b>	0	43	29.5605290
<b>Scale Factor</b>	1.000030372		
<b>Elevation Adjust. Factor</b>	0.9999300762		
<b>Combined Adjust. Factor</b>	0.9999604461		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN SE FACE OF 18" OAK TREE		19.37	63.6	
<b>MK # 2</b>	60D NAIL IN SW FACE OF TELEPHONE POLE		14.97	49.1	
<b>MK # 3</b>	TO NW CORNER OF WELL HOUSE		20.69	67.9	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width:150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width:150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width:150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050408	<b>Date Monumented</b> 12/7/2011	<b>Monumented By</b> AHTD	<b>County</b> Boone	<b>Route</b> 65B	<b>Job Number:</b> 090339,090490
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 210,856.9773	<b>0.0040</b>	<b>Geoid Datum:</b> Geoid96
<b>Easting (M)</b> 300,487.4064	<b>0.0030</b>	<b>Latitude</b> 36 13 43.8308652
<b>Elevation (M)*</b> 320.724	<b>0.0009</b>	<b>Longitude</b> 93 6 24.9091740
<b>Northing (SFT)</b> 691,786.5997		<b>Ellipsoid Height (M):</b> 292.515 0.0000
<b>Easting (SFT)</b> 985,849.0992		<b>Geoid Height (M):</b> -28.209
<b>Elevation (SFT)*</b> 1,052.241		

  

<b>Convergence Angle</b> 0 38 38.8151737	<b>Scale Factor</b> 0.999999119	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999496705	<b>Combined Adjust. Factor</b> 0.9999487896	This station is in the South East corner of the intersection of highways 65B and 7 in Harrison. The station is a standard alum. cap stamped (050408 2011) and is set on a 4 foot rebar. Lt.36.1344 Ln. 093.0625
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CL of HWY 7	South	13.10	43.0	
MK # 2	CL of Main St.	East	35.35	116.0	
MK # 3	N.E. corner of bridge	245	25.60	84.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b> DIGITAL LEVELS WERE RAN FROM NGS BENCHMARK H 36 BY CREW S5102 DURING JOB 090339 IN DEC. 20011.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050408A	<b>Date Monumented</b> 12/7/2011	<b>Monumented By</b> AHTD	<b>County</b> Boone	<b>Route</b> 65B	<b>Job Number:</b> 090339
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	210,613.6612	0.0040			
<b>Easting (M)</b>	300,204.2406	0.0030			
<b>Elevation (M)*</b>	321.570	0.0000			
<b>Northing (SFT)</b>	690,988.3201				
<b>Easting (SFT)</b>	984,920.0794				
<b>Elevation (SFT)*</b>	1,055.016				

  

<b>Convergence Angle</b>	0	38	45.3489510
<b>Scale Factor</b>	0.999998684		
<b>Elevation Adjust. Factor</b>	0.9999495378		
<b>Combined Adjust. Factor</b>	0.9999482219		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of South Spring St.	East	14.60	47.9
<b>MK # 2</b>	CL of Lake Shore Dr.	North	9.45	31.0
<b>MK # 3</b>	N.W. end of bridge	150	5.50	18.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           BASED ON NGS POINT H 36     </td> </tr> </table>	Comments	BASED ON NGS POINT H 36    
Comments			
BASED ON NGS POINT H 36    			

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	36 13 35.8339872
<b>Longitude</b>	93 6 36.1375416
<b>Ellipsoid Height (M):</b>	293.362 0.0040
<b>Geoid Height (M):</b>	-28.206

Location Description
Starting at the intersection of highway 65B and 7 in Harrison. Go south on 65B for 0.1 miles and turn right on Lake Shore Dr. and go 0.2 miles to the station on the right. The station is a standard alum. cap Stamped(050408A 2011) and is set on a 4 foot rebar. Lt.36.1336 Ln.093.0637

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050409	<b>Date Monumented</b> 2/2/2015	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 090427,090490
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	217,005.2239	0.0020	
<b>Easting (M)</b>	295,163.6885	0.0020	
<b>Elevation (M)*</b>	371.136		
<b>Northing (SFT)</b>	711,957.9721		
<b>Easting (SFT)</b>	968,382.8680		
<b>Elevation (SFT)*</b>	1,217.634		

  

<b>Convergence Angle</b>	0	40	44.5535016
<b>Scale Factor</b>	1.000010347		
<b>Elevation Adjust. Factor</b>	0.9999417601		
<b>Combined Adjust. Factor</b>	0.9999521065		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN "DAVEY'S AUTO BODY"	106	42.70	140.1
MK # 2	END OF CULVERT	146	65.10	213.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2: ARHR	
Ref Mon # 3: MOBR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050409A	<b>Date Monumented</b> 2/2/2015	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 412	<b>Job Number:</b> 090427
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	216,616.9429 0.0020
<b>Easting (M)</b>	295,573.2761 0.0020
<b>Elevation (M)*</b>	370.523
<b>Northing (SFT)</b>	710,684.0868
<b>Easting (SFT)</b>	969,726.6567
<b>Elevation (SFT)*</b>	1,215.624

  

<b>Convergence Angle</b>	0 40 34.8968316
<b>Scale Factor</b>	1.000009612
<b>Elevation Adjust. Factor</b>	0.9999418563
<b>Combined Adjust. Factor</b>	0.9999514677

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 16 48.8513172
<b>Longitude</b>	93 9 44.3967696
<b>Ellipsoid Height (M):</b>	342.231 0.0050
<b>Geoid Height (M):</b>	-28.296 0.0050

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 980 AND STATE HIGHWAY 412, NORTHWEST OF HARRISON, GO WEST ON 412 FOR 1.00 MILE TO THE MARK ON THE LEFT, 11.8 FEET SOUTH OF THE SOUTH EDGE OF THE PAVEMENT OF 412, AND 60 FEET EAST OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "050409A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF BOX CULVERT	286	58.60	192.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2 ARHR	
Ref Mon # 3 MOBR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050410	<b>Date Monumented</b> 7/1/2019	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> US-62	<b>Job Number:</b> R90095
--------------------------	------------------------------------	------------------------------	------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	208,336.1991	0.0030	
<b>Easting (M)</b>	315,124.3455	0.0030	
<b>Elevation (M)*</b>	360.675		
<b>Northing (SFT)</b>	683,516.3465		
<b>Easting (SFT)</b>	1,033,870.4569		
<b>Elevation (SFT)*</b>	1,183.315		

  

<b>Convergence Angle</b>	0	32	57.2088950
<b>Scale Factor</b>	0.999994999		
<b>Elevation Adjust. Factor</b>	0.9999434015		
<b>Combined Adjust. Factor</b>	0.9999384008		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	W END OF A GATE	313	11.06	36.3
MK # 2	30" OAK TREE	43	36.33	119.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARM3</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	ARM3	Ref Mon # 3	P777	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6
Ref Mon # 1	ARHR								
Ref Mon # 2	ARM3								
Ref Mon # 3	P777								
Comments									
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6									

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12B

**Latitude** 36 12 26.9979876

**Longitude** 92 56 37.8550572

**Ellipsoid Height (M):** 332.280 0.0230

**Geoid Height (M):** -28.339 0.0230

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.2 MILES TO STATION ON L. 15.7' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050410A	<b>Date Monumented</b> 7/1/2019	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> US-62	<b>Job Number:</b> R90095
---------------------------	------------------------------------	------------------------------	------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	208,601.6507	0.0030	
<b>Easting (M)</b>	315,487.6813	0.0030	
<b>Elevation (M)*</b>	349.939		
<b>Northing (SFT)</b>	684,387.2490		
<b>Easting (SFT)</b>	1,035,062.5011		
<b>Elevation (SFT)*</b>	1,148.091		

  

<b>Convergence Angle</b>	0	32	48.8043948
<b>Scale Factor</b>	0.999995460		
<b>Elevation Adjust. Factor</b>	0.9999450862		
<b>Combined Adjust. Factor</b>	0.9999405465		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	106	2.26	7.4
MK # 2	POWER POLE	80	3.23	10.6
MK # 3	SE COR OF A HOUSE	296	23.26	76.3

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR Ref Mon # 2    ARM3 Ref Mon # 3    P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.5 MILES TO STATION ON L. 11.9' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	050410
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050411	<b>Date Monumented</b> 7/9/2019	<b>Monumented By</b> ARDOT	<b>County</b> BOONE	<b>Route</b> 7	<b>Job Number:</b> 090555
--------------------------	------------------------------------	-------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	204,565.7701 0.0030
<b>Easting (M)</b>	298,922.9033 0.0030
<b>Elevation (M)*</b>	347.173
<b>Northing (SFT)</b>	671,146.1974
<b>Easting (SFT)</b>	980,716.2252
<b>Elevation (SFT)*</b>	1,139.016

  

<b>Convergence Angle</b>	0 39 13.5949855
<b>Scale Factor</b>	0.999988452
<b>Elevation Adjust. Factor</b>	0.9999455202
<b>Combined Adjust. Factor</b>	0.9999339729

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GATE POST	199	46.79	153.5
<b>MK # 2</b>	COMBINATION POLE	36	10.36	34.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> ARM3 <b>Ref Mon # 3</b> ARRV, MOBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.45 MILES TO THE MARK ON THE LEFT, EAST 29.7' OF THE C/L OF THE HIGHWAY AND NORTH 126' OF THE C/L OF A PRIVATE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050411A	<b>Date Monumented</b> 7/9/2019	<b>Monumented By</b> ARDOT	<b>County</b> BOONE	<b>Route</b> 7	<b>Job Number:</b> 090555
---------------------------	------------------------------------	-------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	205,098.1987 0.0030
<b>Easting (M)</b>	298,925.9152 0.0030
<b>Elevation (M)*</b>	343.553
<b>Northing (SFT)</b>	672,893.0069
<b>Easting (SFT)</b>	980,726.1068
<b>Elevation (SFT)*</b>	1,127.142

  

<b>Convergence Angle</b>	0 39 13.6663209
<b>Scale Factor</b>	0.999989314
<b>Elevation Adjust. Factor</b>	0.9999460882
<b>Combined Adjust. Factor</b>	0.9999354027

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid12B
<b>Latitude</b> 36 10 36.4340964
<b>Longitude</b> 93 7 24.8012508
<b>Ellipsoid Height (M):</b> 315.330 0.0230
<b>Geoid Height (M):</b> -28.240 0.0230

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				050411
MK # 2				
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> ARM3 <b>Ref Mon # 3</b> ARRV, MOBR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060002	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 15	<b>Job Number:</b> R70095
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	514,040.9052	
<b>Easting (M)</b>	396,934.1830	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,686,482.5365	
<b>Easting (SFT)</b>	1,302,274.8987	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	6.6316045
<b>Scale Factor</b>	0.999935925		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN SIXTH METAL GUARD RA IL POST	24	2.10	6.9
MK # 2	PUNCH POINT IN TENTH METAL GUARD RA IL POST	231	3.75	12.3
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	WARRPORT
<b>Ref Mon # 2</b>	CELLPORT
<b>Ref Mon # 3</b>	93400004

  

Comments

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 33 41 41.5315716

**Longitude** 92 1 59.0507652

**Ellipsoid Height (M):** 13.634

**Geoid Height (M):** -26.542

  

**Location Description**

FROM THE BRADLEY COUNTY COURTHOUSE IN WARREN, GO NORTH ON HWY. 15 FOR 0.32 KM (0.20 MILES) TO A "T" JCT., GO RIGHT (EAST) FOR 0.16 KM (0.10 MILES) TO ANOTHER "T" JCT., GO LEFT (NORTH) ON HWY. 15 FOR 5.79 KM (3.62 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.10 METERS EAST OF THE CENTERLINE OF HWY. 15, 5.70 METERS SOUTH OF A BRIDGE END (BRIDGE NO. 1475R) AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "060002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060002A	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 15	<b>Job Number:</b> R70095
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	514,482.3261	
<b>Easting (M)</b>	397,236.2450	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,687,930.7649	
<b>Easting (SFT)</b>	1,303,265.9138	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	0.0694679
<b>Scale Factor</b>	0.999935518		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> CELLPORT	
<b>Ref Mon # 3</b> 93400004	

  

--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060003	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 15	<b>Job Number:</b> R70105
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	468,652.8769	
<b>Easting (M)</b>	367,889.2319	
<b>Elevation (M)*</b>	34.150	
<b>Northing (SFT)</b>	1,537,571.9803	
<b>Easting (SFT)</b>	1,206,983.2550	
<b>Elevation (SFT)*</b>	112.040	

  

<b>Convergence Angle</b>	0	11	34.5620820
<b>Scale Factor</b>	1.000003331		
<b>Elevation Adjust. Factor</b>	0.9999946408		
<b>Combined Adjust. Factor</b>	0.9999979718		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EASTERLY ON HWY-15 FOR 2.09 KM. (1.30 MI.) CROSSING OVER THE OUACHITA RIVER BRIDGE TO THE STATION ON THE LEFT NEAR THE NORTH END OF THE BRIDGE. 11.86 METERS NORTH OF THE BRIDGE END. 6.5 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	1st GUARD RAIL POST NORTH OF THE BRID	CE	189	6.21	20.4
MK # 2	8th GUARD RAIL POST NORTH OF THE BRID	CE	161	1.14	3.7
MK # 3	10th GUARD RAIL POST NORTH OF THE BRI	DCR	28	2.92	9.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    STELL 1986</p> <p>Ref Mon # 2    WARRPORT 1986</p> <p>Ref Mon # 3    700003</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060005	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 4	<b>Job Number:</b> 001800,070159
--------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,122.0902	
<b>Easting (M)</b>	395,513.6640	
<b>Elevation (M)*</b>	53.317	
<b>Northing (SFT)</b>	1,653,940.5576	
<b>Easting (SFT)</b>	1,297,614.4126	
<b>Elevation (SFT)*</b>	174.924	

  

<b>Convergence Angle</b>	0	1	37.4029628
<b>Scale Factor</b>	0.999946321		
<b>Elevation Adjust. Factor</b>	0.9999916329		
<b>Combined Adjust. Factor</b>	0.9999379543		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B, LOCATED ON THE EAST SIDE OF WARREN, GO SOUTH ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 0.50 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 25.535 METERS NORTH OF A GRAVEL DRIVE, 17.133 METERS EAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 2.250 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	GUY POLE	30	21.18	69.5		
MK # 2	TELEPHONE JUNCTION BOX	188	17.95	58.9		
MK # 3	NORTH END OF 0.42 METER CMP	208	22.03	72.3		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="K 124"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="S 197"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060005A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 4	<b>Job Number:</b> 001800 , 020462 , 070159
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,612.0972	
<b>Easting (M)</b>	395,597.7000	
<b>Elevation (M)*</b>	56.420	
<b>Northing (SFT)</b>	1,655,548.1889	
<b>Easting (SFT)</b>	1,297,890.1208	
<b>Elevation (SFT)*</b>	185.104	

  

<b>Convergence Angle</b>	0	1	35.5833854
<b>Scale Factor</b>	0.999945751		
<b>Elevation Adjust. Factor</b>	0.9999911460		
<b>Combined Adjust. Factor</b>	0.9999368974		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF MAN HOLE COVER	81	8.50	27.9
<b>MK # 2</b>	R/W SIGN	28	7.20	23.6
<b>MK # 3</b>	POWER POLE	284	22.00	72.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="K 124"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="S 197"/>	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

  

Location Description
THE STATION IS LOCATED ON THE EAST SIDE OF WARREN, AT THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B. THE STATION IS 13.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4, 8.40 METERS EAST OF THE CENTER OF LURALEA LANE AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	060005
<b>Geodetic Azimuth</b>	189 42 18.17647
<b>Grid Azimuth</b>	189 43 53.76989

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060006	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 172	<b>Job Number:</b> 001800
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,282.5482	
<b>Easting (M)</b>	401,307.2420	
<b>Elevation (M)*</b>	35.591	

  

<b>Northing (SFT)</b>	1,654,466.9936	
<b>Easting (SFT)</b>	1,316,622.1765	
<b>Elevation (SFT)*</b>	116.768	

  

<b>Convergence Angle</b>	0	0	28.3820475
<b>Scale Factor</b>	0.999946133		
<b>Elevation Adjust. Factor</b>	0.9999944146		
<b>Combined Adjust. Factor</b>	0.9999405479		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN, GO SOUTH ON STATE HIGHWAY 172 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.390 METERS EAST OF THE CENTER OF STATE HIGHWAY 172 AND 0.500 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF EAST HEADWALL	169	37.78	123.9
MK # 2	NORTH END OF WEST HEADWALL	200	41.53	136.2
MK # 3	NBC IN 0.23 METER OAK TREE	116	22.40	73.5

  

<b>AZ Mark Station</b>	060006A
<b>Geodetic Azimuth</b>	350 53 30.11404
<b>Grid Azimuth</b>	350 53 01.73911

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: K 124</p> <p>Ref Mon # 3: S 197</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060006A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 4	<b>Job Number:</b> 001800
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,652.2621	
<b>Easting (M)</b>	401,247.9160	
<b>Elevation (M)*</b>	36.789	
<b>Northing (SFT)</b>	1,655,679.9632	
<b>Easting (SFT)</b>	1,316,427.5377	
<b>Elevation (SFT)*</b>	120.699	

  

<b>Convergence Angle</b>	0	0	27.0950529
<b>Scale Factor</b>	0.999945703		
<b>Elevation Adjust. Factor</b>	0.9999942266		
<b>Combined Adjust. Factor</b>	0.9999399300		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF EAST HEADWALL	148	36.47	119.6
<b>MK # 2</b>	NORTH END OF WEST HEADWALL	173	34.55	113.4
<b>MK # 3</b>	NBC IN 0.80 METER PINE TREE	307	41.34	135.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="K 124"/>	
<b>Ref Mon # 3</b> <input type="text" value="S 197"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 36 36.8001036
<b>Longitude</b>	91 59 11.5892376
<b>Ellipsoid Height (M):</b>	11.067
<b>Geoid Height (M):</b>	-25.722

Location Description
<p>THE STATION IS LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN AT THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, THE STATION IS 7.173 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	060006
<b>Geodetic Azimuth</b>	170 53 28.84125
<b>Grid Azimuth</b>	170 53 01.73911

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060007	<b>Date Monumented</b> 2/4/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 15	<b>Job Number:</b> 070182,070204,070159
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,079.3422	
<b>Easting (M)</b>	394,101.4560	
<b>Elevation (M)*</b>	58.714	
<b>Northing (SFT)</b>	1,663,642.8085	
<b>Easting (SFT)</b>	1,292,981.1936	
<b>Elevation (SFT)*</b>	192.631	

  

<b>Convergence Angle</b>	0	2	8.1033165
<b>Scale Factor</b>	0.999942970		
<b>Elevation Adjust. Factor</b>	0.9999907859		
<b>Combined Adjust. Factor</b>	0.9999337565		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF RCP	90	16.68	54.7
<b>MK # 2</b>	WOODEN GATE POST	271	25.18	82.6
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	22.86	22.86	75.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	Elevations based on NGS POINT WARREN MAG STATION
<b>Ref Mon # 2</b> K 124	
<b>Ref Mon # 3</b> 060005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060007A	<b>Date Monumented</b> 2/4/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 15	<b>Job Number:</b> 070182,070204,070159
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,055.3402	
<b>Easting (M)</b>	393,690.6760	
<b>Elevation (M)*</b>	57.757	
<b>Northing (SFT)</b>	1,663,564.0620	
<b>Easting (SFT)</b>	1,291,633.4928	
<b>Elevation (SFT)*</b>	189.491	

  

<b>Convergence Angle</b>	0	2	17.0242002
<b>Scale Factor</b>	0.999942997		
<b>Elevation Adjust. Factor</b>	0.9999909361		
<b>Combined Adjust. Factor</b>	0.9999339336		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	90	19.75	64.8
<b>MK # 2</b>	EAST END OF CMP	275	22.45	73.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	Elevations based on NGS POINT WARREN MAG STATION
<b>Ref Mon # 2</b> K 124	
<b>Ref Mon # 3</b> 060005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060008	<b>Date Monumented</b> 2/11/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> R70123
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,296.7342	
<b>Easting (M)</b>	394,402.1930	
<b>Elevation (M)*</b>	73.936	
<b>Northing (SFT)</b>	1,628,266.8688	
<b>Easting (SFT)</b>	1,293,967.8615	
<b>Elevation (SFT)*</b>	242.572	

  

<b>Convergence Angle</b>	0	2	1.4341108
<b>Scale Factor</b>	0.999956227		
<b>Elevation Adjust. Factor</b>	0.9999883972		
<b>Combined Adjust. Factor</b>	0.9999446247		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 54.25 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 8.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    AHTD MON 1</p> <p><b>Ref Mon # 3</b>    060005A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK. ELEV BASED ON NGS POINT SUMPTER</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060008A	<b>Date Monumented</b> 2/11/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> R70123
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,590.5062	
<b>Easting (M)</b>	394,295.1700	
<b>Elevation (M)*</b>	74.272	
<b>Northing (SFT)</b>	1,629,230.6858	
<b>Easting (SFT)</b>	1,293,616.7369	
<b>Elevation (SFT)*</b>	243.674	

  

<b>Convergence Angle</b>	0	2	3.7596021
<b>Scale Factor</b>	0.999955828		
<b>Elevation Adjust. Factor</b>	0.9999883444		
<b>Combined Adjust. Factor</b>	0.9999441730		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.24 KM (0.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.50 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: STELL	<p>NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK. ELEV BASED ON NGS POINT SUMPTER</p>
Ref Mon # 2: AHTD MON 1	
Ref Mon # 3: 060005A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060009	<b>Date Monumented</b> 2/11/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> R70123,070197
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	491,767.5862	
<b>Easting (M)</b>	395,301.7920	
<b>Elevation (M)*</b>	87.262	
<b>Northing (SFT)</b>	1,613,407.4891	
<b>Easting (SFT)</b>	1,296,919.2959	
<b>Elevation (SFT)*</b>	286.292	

  

<b>Convergence Angle</b>	0	1	41.8704477
<b>Scale Factor</b>	0.999962645		
<b>Elevation Adjust. Factor</b>	0.9999863059		
<b>Combined Adjust. Factor</b>	0.9999489514		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	29	38.5391508
<b>Longitude</b>	92	3	2.0143008
<b>Ellipsoid Height:</b>	61.499		
<b>Grid Northing (Meters)</b>	491,767.5102		
<b>Grid Easting (Meters)</b>	395,301.7338		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	135	4.70	15.4
MK # 2	0.32 METER PECAN TREE	22	14.75	48.4
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: <input type="text" value="STELL"/> Ref Mon # 2: <input type="text" value="AHTD MON 1"/> Ref Mon # 3: <input type="text" value="060005A"/>	<b>Comments</b> ELEV BASED ON NGS POINT SUMPTER
--	--

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 6.76 KM (4.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060009A	<b>Date Monumented</b> 2/11/1999	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> R70123,070197
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	491,309.1581	
<b>Easting (M)</b>	395,290.8010	
<b>Elevation (M)*</b>	82.777	
<b>Northing (SFT)</b>	1,611,903.4629	
<b>Easting (SFT)</b>	1,296,883.2363	
<b>Elevation (SFT)*</b>	271.578	

  

<b>Convergence Angle</b>	0	1	42.1038421
<b>Scale Factor</b>	0.999963323		
<b>Elevation Adjust. Factor</b>	0.9999870098		
<b>Combined Adjust. Factor</b>	0.9999503332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	29	23.6587992
<b>Longitude</b>	92	3	2.4314976
<b>Ellipsoid Height:</b>	57.010		
<b>Grid Northing (Meters)</b>	491,309.0803		
<b>Grid Easting (Meters)</b>	395,290.7379		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	52	21.50	70.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;"><b>Ref Mon # 1</b></td> <td>STELL</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>AHTD MON 1</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>060005A</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	STELL	<b>Ref Mon # 2</b>	AHTD MON 1	<b>Ref Mon # 3</b>	060005A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	STELL										
<b>Ref Mon # 2</b>	AHTD MON 1										
<b>Ref Mon # 3</b>	060005A										
Comments											

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 23.6613264
<b>Longitude</b>	92 3 2.4290532
<b>Ellipsoid Height (M):</b>	57.012
<b>Geoid Height (M):</b>	-25.765

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER OF STATE HIGHWAY 8, 6.35 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD TO A WATER TANK AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060010	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	488,488.0916	
<b>Easting (M)</b>	395,893.2620	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,602,648.0139	
<b>Easting (SFT)</b>	1,298,859.8104	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	29.0150166
<b>Scale Factor</b>	0.999967606		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.75 KM (7.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 735.100 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2: <input style="width: 150px;" type="text" value="AHTD MON 1"/></p> <p>Ref Mon # 3: <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060010A	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,761.7673	
<b>Easting (M)</b>	396,006.3344	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,600,265.0649	
<b>Easting (SFT)</b>	1,299,230.7821	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	26.5575261
<b>Scale Factor</b>	0.999968740		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.02 KM (6.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUJND. THE SHOT DISTANCE IS 735.100 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: AHTD MON 1</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060011	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	485,349.5884	
<b>Easting (M)</b>	397,901.2884	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,592,351.1079	
<b>Easting (SFT)</b>	1,305,447.8104	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	45.4753288
<b>Scale Factor</b>	0.999972599		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.61 KM (4.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2: <input style="width: 150px;" type="text" value="AHTD MON 1"/></p> <p>Ref Mon # 3: <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060011A	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	485,448.4763	
<b>Easting (M)</b>	397,526.8733	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,592,675.5427	
<b>Easting (SFT)</b>	1,304,219.4168	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	53.5887931
<b>Scale Factor</b>	0.999972438		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;"><b>Ref Mon # 1</b></td> <td>STELL</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>AHTD MON 1</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	STELL	<b>Ref Mon # 2</b>	AHTD MON 1	<b>Ref Mon # 3</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	STELL										
<b>Ref Mon # 2</b>	AHTD MON 1										
<b>Ref Mon # 3</b>											
Comments											

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 33 26 13.4568852

**Longitude** 92 1 35.7471588

**Ellipsoid Height (M):** 42.212

**Geoid Height (M):** -25.766

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060012	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	482,304.1181	
<b>Easting (M)</b>	398,695.5637	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,582,359.4275	
<b>Easting (SFT)</b>	1,308,053.6952	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	28.2557645
<b>Scale Factor</b>	0.999977676		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 4.18 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.35 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2: <input style="width: 150px;" type="text" value="AHTD MON 1"/></p> <p>Ref Mon # 3: <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060012A	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,847.3534	
<b>Easting (M)</b>	398,730.2241	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,580,860.8586	
<b>Easting (SFT)</b>	1,308,167.4102	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	27.5036557
<b>Scale Factor</b>	0.999978457		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	155	6.65	21.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>STELL</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>AHTD MON 1</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	STELL	<b>Ref Mon # 2</b>	AHTD MON 1	<b>Ref Mon # 3</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	STELL										
<b>Ref Mon # 2</b>	AHTD MON 1										
<b>Ref Mon # 3</b>											
Comments											

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 16.5758184
<b>Longitude</b>	92 0 49.1408136
<b>Ellipsoid Height (M):</b>	41.221
<b>Geoid Height (M):</b>	-25.764

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 9.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060013	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 160	<b>Job Number:</b> 070197,001941
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	478,323.0144	
<b>Easting (M)</b>	398,476.0477	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,569,298.0897	
<b>Easting (SFT)</b>	1,307,333.4998	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	32.9969656
<b>Scale Factor</b>	0.999984655		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN JOHNSVILLE AT THE JUNCTION OF STATE HIGHWAY 160, STATE HIGHWAY 8 AND COUNTY ROAD 56. THE STATION IS 12.80 WEST-NORTHWEST OF THE CENTER OF COUNTY ROAD 56, 8.30 METERS SOUTH-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 160, 3.30 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVE AND 2.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: AHTD MON 1</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060013A	<b>Date Monumented</b> 2/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 070197,001941
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	478,624.8063	
<b>Easting (M)</b>	398,885.0950	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,570,288.2187	
<b>Easting (SFT)</b>	1,308,675.5158	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	24.1409452
<b>Scale Factor</b>	0.999984112		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	STELL
<b>Ref Mon # 2</b>	AHTD MON 1
<b>Ref Mon # 3</b>	

  

Comments

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 22 31.9759752
<b>Longitude</b>	92 0 43.1326548
<b>Ellipsoid Height (M):</b>	37.180
<b>Geoid Height (M):</b>	-25.766

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO EAST ON STATE HIGHWAY 8 FOR 0.51 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH-NORTHWEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060014	<b>Date Monumented</b> 3/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 63	<b>Job Number:</b> 070204
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	495,260.7468	
<b>Easting (M)</b>	391,860.5155	
<b>Elevation (M)*</b>	73.912	
<b>Northing (SFT)</b>	1,624,867.9668	
<b>Easting (SFT)</b>	1,285,629.0413	
<b>Elevation (SFT)*</b>	242.493	

  

<b>Convergence Angle</b>	0	2	56.5518642
<b>Scale Factor</b>	0.999957653		
<b>Elevation Adjust. Factor</b>	0.9999884009		
<b>Combined Adjust. Factor</b>	0.9999460544		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W MARKER SIGN	65	3.92	12.9
<b>MK # 2</b>	COVER OF WATER METER	131	6.51	21.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1 <b>Ref Mon # 2</b> S 197 <b>Ref Mon # 3</b> STELL	Elevation based on Job BM Marked 243.494 Feet (?7715?)   

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    31    31.8507132
<b>Longitude</b>	92    5    15.4454208
<b>Ellipsoid Height (M):</b>	47.967
<b>Geoid Height (M):</b>	-25.773

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.70 KM (1.67 MI) TO THE STATION ON THE LEFT. THE STATION IS 47.30 METERS NORTHEAST OF THE CENTER OF COUNTY ROAD 33, 11.25 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060014A	<b>Date Monumented</b> 3/28/2001	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 63	<b>Job Number:</b> 070204
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	495,543.9415	
<b>Easting (M)</b>	392,303.8637	
<b>Elevation (M)*</b>	74.035	
<b>Northing (SFT)</b>	1,625,797.0814	
<b>Easting (SFT)</b>	1,287,083.5928	
<b>Elevation (SFT)*</b>	242.896	

  

<b>Convergence Angle</b>	0	2	46.9402654
<b>Scale Factor</b>	0.999957261		
<b>Elevation Adjust. Factor</b>	0.9999883816		
<b>Combined Adjust. Factor</b>	0.9999456431		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W MARKER SIGN	55	5.62	18.4
<b>MK # 2</b>	R/W MARKER SIGN	145	0.71	2.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 3</td> <td>STELL</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	S 197	Ref Mon # 3	STELL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on Job BM Marked 243.494 Feet (?7715?)</td> </tr> </table>	Comments	Elevation based on Job BM Marked 243.494 Feet (?7715?)
Ref Mon # 1	AHTD MON 1								
Ref Mon # 2	S 197								
Ref Mon # 3	STELL								
Comments									
Elevation based on Job BM Marked 243.494 Feet (?7715?)									

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060015	<b>Date Monumented</b> 3/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 001941
--------------------------	------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,160.7061	
<b>Easting (M)</b>	402,637.5390	
<b>Elevation (M)*</b>	29.007	
<b>Northing (SFT)</b>	1,572,046.4166	
<b>Easting (SFT)</b>	1,320,986.6592	
<b>Elevation (SFT)*</b>	95.167	

  

<b>Convergence Angle</b>	0	0	57.1136234
<b>Scale Factor</b>	0.999983155		
<b>Elevation Adjust. Factor</b>	0.9999954479		
<b>Combined Adjust. Factor</b>	0.9999786030		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.68 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.5 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 11.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8, AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "060015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	60	24.20	79.4
MK # 2	POWER POLE	90	15.00	49.2
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 060013</p> <p>Ref Mon # 2: 020009</p> <p>Ref Mon # 3: FOUNTAIN AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060015A	<b>Date Monumented</b> 3/5/2002	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> 001941
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,115.8091	
<b>Easting (M)</b>	402,102.7020	
<b>Elevation (M)*</b>	29.304	
<b>Northing (SFT)</b>	1,571,899.1170	
<b>Easting (SFT)</b>	1,319,231.9481	
<b>Elevation (SFT)*</b>	96.142	

  

<b>Convergence Angle</b>	0	0	45.5319774
<b>Scale Factor</b>	0.999983234		
<b>Elevation Adjust. Factor</b>	0.9999954013		
<b>Combined Adjust. Factor</b>	0.9999786353		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.34 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 54 mm CAP STAMPED "060015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EASTERN WOODEN BRACE POST	120	2.10	6.9
<b>MK # 2</b>	CENTER WOODEN BRACE POST	170	1.30	4.3
<b>MK # 3</b>	WESTERN WOODEN BRACE POST	221	2.30	7.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 060013 <b>Ref Mon # 2</b> 020009 <b>Ref Mon # 3</b> FOUNTAIN AZ	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060016	<b>Date Monumented</b> 9/19/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> NA	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	500,772.5922	
<b>Easting (M)</b>	396,047.7980	
<b>Elevation (M)*</b>	54.507	
<b>Northing (SFT)</b>	1,642,951.4129	
<b>Easting (SFT)</b>	1,299,366.8173	
<b>Elevation (SFT)*</b>	178.828	

  

<b>Convergence Angle</b>	0	1	25.7761249
<b>Scale Factor</b>	0.999950377		
<b>Elevation Adjust. Factor</b>	0.9999914461		
<b>Combined Adjust. Factor</b>	0.9999418236		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 278B east of Warren go west on hwy-278 for 1.40 miles to county road 24 on the left, turn left on cr24 and go 1.30 miles to a private drive on the right, turn right through a gate and onto the property of Charles Goins. Continue ahead for 0.05 miles to the mark on the left near the end of a garden. 13.6 feet from the center of the gravel drive and 1.5 feet east of a witness post. The station mark is a 2 1/ inch cap stamped "060016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. NOTE: there is no azimuth mark for this station.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Service pole with light	190	67.24	220.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060017	<b>Date Monumented</b> 9/19/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> NA	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	503,776.4971	
<b>Easting (M)</b>	397,416.5120	
<b>Elevation (M)*</b>	36.922	
<b>Northing (SFT)</b>	1,652,806.7242	
<b>Easting (SFT)</b>	1,303,857.3398	
<b>Elevation (SFT)*</b>	121.136	

  

<b>Convergence Angle</b>	0	0	56.0881409
<b>Scale Factor</b>	0.999946726		
<b>Elevation Adjust. Factor</b>	0.9999942057		
<b>Combined Adjust. Factor</b>	0.9999409320		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Manhole	15	4.21	13.8
<b>MK # 2</b>	SW corner of concrete sewer lift station	75	6.74	22.1
<b>MK # 3</b>	Fence corner	325	30.60	100.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

  

<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 36 8.3649528
<b>Longitude</b>	92 1 40.2127464
<b>Ellipsoid Height (M):</b>	11.194
<b>Geoid Height (M):</b>	-25.741

  

Location Description
<p>To reach the station from hwy-278 and 278B east of Warren go east on 278 for 0.20 miles to county road 44 on the right. Go right on CR44 and go 1.4 miles to a gravel road on the left. Turn left and go 0.10 miles to a gated road on the left at the Water treatment plant. Pass through the gate and go 0.20 miles to a road left, go left and follow the road around the ponds to the lift station and the station on the left. The station mark is a 2 1/2 inch cap stamped "060017 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. Sewer plant manager is Travis Smith 870-820-2217 for access through the gate.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060017A	<b>Date Monumented</b> 9/19/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> NA	<b>Job Number:</b> 001873,020462
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	503,301.9312	
<b>Easting (M)</b>	397,544.0560	
<b>Elevation (M)*</b>	37.144	
<b>Northing (SFT)</b>	1,651,249.7526	
<b>Easting (SFT)</b>	1,304,275.7904	
<b>Elevation (SFT)*</b>	121.863	

  

<b>Convergence Angle</b>	0	0	53.3164671
<b>Scale Factor</b>	0.999947288		
<b>Elevation Adjust. Factor</b>	0.9999941710		
<b>Combined Adjust. Factor</b>	0.9999414593		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	251	25.45	83.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060018	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> 172	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,800.7811	
<b>Easting (M)</b>	401,220.3630	
<b>Elevation (M)*</b>	35.038	
<b>Northing (SFT)</b>	1,646,324.7293	
<b>Easting (SFT)</b>	1,316,337.1409	
<b>Elevation (SFT)*</b>	114.955	

  

<b>Convergence Angle</b>	0	0	26.4888642
<b>Scale Factor</b>	0.999949102		
<b>Elevation Adjust. Factor</b>	0.9999945014		
<b>Combined Adjust. Factor</b>	0.9999436037		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW corner of bridge end	160	7.53	24.7
MK # 2	NE corner of bridge end	117	12.13	39.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060018A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> 172	<b>Job Number:</b> 001873,020462
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,490.4812	
<b>Easting (M)</b>	401,216.2910	
<b>Elevation (M)*</b>	34.898	
<b>Northing (SFT)</b>	1,648,587.5204	
<b>Easting (SFT)</b>	1,316,323.7814	
<b>Elevation (SFT)*</b>	114.493	

  

<b>Convergence Angle</b>	0	0	26.4023953
<b>Scale Factor</b>	0.999948261		
<b>Elevation Adjust. Factor</b>	0.9999945235		
<b>Combined Adjust. Factor</b>	0.9999427847		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 172 east of Warren go south on hwy-172 for 1.35 miles to the station on the right. 19.5 feet west of the center of hwy-172, 12.0 feet south of a driveway and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "060018A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Five inch Black Walnut tree	313	16.55	54.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    Warrport, Warrport Az.	<p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
Ref Mon # 2    ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3    W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060019	<b>Date Monumented</b> 10/10/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> 278	<b>Job Number:</b> 001873, 020462
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,306.4852	
<b>Easting (M)</b>	398,833.6920	
<b>Elevation (M)*</b>	38.105	
<b>Northing (SFT)</b>	1,654,545.5269	
<b>Easting (SFT)</b>	1,308,506.8712	
<b>Elevation (SFT)*</b>	125.017	

  

<b>Convergence Angle</b>	0	0	25.3222369
<b>Scale Factor</b>	0.999946105		
<b>Elevation Adjust. Factor</b>	0.9999940201		
<b>Combined Adjust. Factor</b>	0.9999401254		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW bridge corner	83	2.96	9.7
<b>MK # 2</b>	West end of curb	234	2.13	7.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060019A	<b>Date Monumented</b> 10/10/2006	<b>Monumented By</b> AHTD	<b>County</b> Bradley	<b>Route</b> 278	<b>Job Number:</b> 001873, 020462
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,364.8742	
<b>Easting (M)</b>	399,379.3360	
<b>Elevation (M)*</b>	38.008	
<b>Northing (SFT)</b>	1,654,737.0914	
<b>Easting (SFT)</b>	1,310,297.0382	
<b>Elevation (SFT)*</b>	124.699	

  

<b>Convergence Angle</b>	0	0	13.4755990
<b>Scale Factor</b>	0.999946037		
<b>Elevation Adjust. Factor</b>	0.9999940353		
<b>Combined Adjust. Factor</b>	0.9999400726		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE end of bridge corner	300	1.95	6.4
MK # 2	East end of curb	58	3.32	10.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060020	<b>Date Monumented</b> 4/26/2017	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 160	<b>Job Number:</b> 070418
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	474,208.7219	0.0021	
<b>Easting (M)</b>	388,224.0338	0.0021	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,555,799.7818		
<b>Easting (SFT)</b>	1,273,698.3509		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	4	14.8657342
<b>Scale Factor</b>	0.999992288		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	C/L HDWL	51	5.97	19.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.
Ref Mon # 2    ARMO	
Ref Mon # 3    LTEC, IULM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060020A	<b>Date Monumented</b> 4/26/2017	<b>Monumented By</b> AHTD	<b>County</b> BRADLEY	<b>Route</b> 160	<b>Job Number:</b> 070418
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	474,100.7363	0.0021			
<b>Easting (M)</b>	388,597.0131	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,555,445.4990				
<b>Easting (SFT)</b>	1,274,922.0338				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	4	6.7906032
<b>Scale Factor</b>	0.999992493		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP W/GUY	104	23.93	78.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.
Ref Mon # 2    ARMO	
Ref Mon # 3    LTEC, IULM	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33    20    4.9103376
<b>Longitude</b>	92    7    20.9410572
<b>Ellipsoid Height (M):</b>	10.310    0.0044
<b>Geoid Height (M):</b>	-25.986    0.0044

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 8 WEST AND STATE HIGHWAY 160 WEST, IN JOHNSVILLE, GO WEST ON HIGHWAY 160 7.45 MILES TO THE MARK ON THE RIGHT, 23' SOUTH SOUTHWEST OF THE C/L OF THE HIGHWAY AND NORTH NORTHEAST 34' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 060020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060021	<b>Date Monumented</b> 6/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> HWY 8 DRAINAGE STUDY
--------------------------	-------------------------------------	-------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	479,115.4266	0.0020	
<b>Easting (M)</b>	402,112.5859	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,571,897.8621		
<b>Easting (SFT)</b>	1,319,264.3756		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	0	45.7460026
<b>Scale Factor</b>	0.999983235		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/GUY	95	41.75	137.0
<b>MK # 2</b>	FENCE COR W/BRACE	255	35.05	115.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARMO	
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> IULM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 22 47.8954992
<b>Longitude</b>	91 58 38.2655640
<b>Ellipsoid Height (M):</b>	3.747 0.0410
<b>Geoid Height (M):</b>	-25.833 0.0410

**Location Description**

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 2 MILES TO THE STATION ON THE LEFT. 40' SOUTH OF THE C/L OF SR-8, 11.5' NORTH OF FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "060021 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 060021A	<b>Date Monumented</b> 6/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> BRADLEY	<b>Route</b> 8	<b>Job Number:</b> HWY 8 DRAINAGE STUDY
---------------------------	-------------------------------------	-------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	479,141.0478	0.0030			
<b>Easting (M)</b>	402,570.0106	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,571,981.9210				
<b>Easting (SFT)</b>	1,320,765.1098				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	0	55.6512409
<b>Scale Factor</b>	0.999983190		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	150	10.06	33.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARMO <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> IULM	

<b>Vertical Determined By:</b>	Level - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 22 48.7234884
<b>Longitude</b>	91 58 20.5678632
<b>Ellipsoid Height (M):</b>	4.903 0.0410
<b>Geoid Height (M):</b>	-25.830 0.0410

**Location Description**

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 1.7 MILES TO THE STATION ON THE LEFT. 25' SOUTH OF THE C/L OF SR-8. THE MARK IS A STANDARD 2½" CAP STAMPED ""060021A 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070001	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 205	<b>Job Number:</b> 070198
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,514.7221	
<b>Easting (M)</b>	348,596.7790	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,720,845.3841	
<b>Easting (SFT)</b>	1,143,687.9324	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	38.4065161
<b>Scale Factor</b>	0.999927662		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH GUY	110	7.40	24.3
<b>MK # 2</b>	TELEPHONE RISER	102	20.40	66.9
<b>MK # 3</b>	GUY	170	4.75	15.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1 (LROC)	
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 47 16.9908180
<b>Longitude</b>	92 33 18.2582208
<b>Ellipsoid Height (M):</b>	64.424
<b>Geoid Height (M):</b>	-26.045

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 205 AND HIGHWAY 274, NORTH OF HAMPTON AND WEST OF FORDYCE, GO SOUTH ON HIGHWAY 205 0.20 MILES TO THE STATION ON THE RIGHT. SOUTH 15.50 METERS OF THE CENTER OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070001A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 205	<b>Job Number:</b> 070198
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,425.0161	
<b>Easting (M)</b>	349,217.9180	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,720,551.0737	
<b>Easting (SFT)</b>	1,145,725.7860	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	24.8818787
<b>Scale Factor</b>	0.999927720		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	212	2.90	9.5
<b>MK # 2</b>	WATER METER	136	3.80	12.5
<b>MK # 3</b>	COMBINATION POLE	245	14.60	47.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1 (LROC)	
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 47 14.1877860
<b>Longitude</b>	92 32 54.0937356
<b>Ellipsoid Height (M):</b>	59.739
<b>Geoid Height (M):</b>	-26.041

Location Description
<p>TO REACH THE STATION FROM THE STATE HIGHWAY 205 AND HIGHWAY 274, NORTH OF HAMPTON AND WEST OF FORDYCE, GO SOUTH ON HIGHWAY 205 0.50 MILES TO THE STATION ON THE RIGHT. 11.30 METERS EAST OF A PRIVATE GRAVEL DRIVE, 16.5 METERS SOUTH OF THE CENTER OF THE HIGHWAY, AND 0.50 NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070001A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	070001
<b>Geodetic Azimuth</b>	277 54 40
<b>Grid Azimuth</b>	278 13 05

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070002	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 007969, 070435
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	505,232.8348	0.0030			
<b>Easting (M)</b>	348,708.2169	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,657,584.7255				
<b>Easting (SFT)</b>	1,144,053.5416				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	18	33.7167630
<b>Scale Factor</b>	0.999945194		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	36	51.1529184
<b>Longitude</b>	92	33	9.8801964
<b>Ellipsoid Height:</b>	38.781		
<b>Grid Northing (Meters)</b>	505,232.8381		
<b>Grid Easting (Meters)</b>	348,708.1870		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WEST CORNER OF A CEMETERY FE	246	15.90	52.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1 - AHTD MON1	Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.020m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. PREVIOUS ELEV. WAS 59.6035m.
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> Vicksburg CORS	

  

<b>Location Description</b>
THE STATION, NORTH WEST OF HAMPTON, IS LOCATED AT THE SOUTH EAST CORNER OF THE JUNCTION OF STATE HIGHWAY 274 AND HIGHWAY 203 SOUTH, 28.0 METERS EAST OF HIGHWAY 203, 9.10 METERS SOUTH OF HIGHWAY 274 AND 6.1 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070002 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	070002A
<b>Geodetic Azimuth</b>	268 37 37
<b>Grid Azimuth</b>	268 56 10

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070002A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 007969, 070435
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	505,221.2543	0.0030			
<b>Easting (M)</b>	348,084.6121	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,657,546.7318				
<b>Easting (SFT)</b>	1,142,007.5982				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	18	47.2556738
<b>Scale Factor</b>	0.999945211		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	36	50.6670948
<b>Longitude</b>	92	33	34.0699968
<b>Ellipsoid Height:</b>	33.599		
<b>Grid Northing (Meters)</b>	505,221.2582		
<b>Grid Easting (Meters)</b>	348,084.5870		

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1 - AHTD MON1	Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.023m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. OLD ELEV. WAS 64.7857m.
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> Vicksburg CORS	

  

<b>Location Description</b>
TO REACH THE STATION FORM THE JUNCTION OF STATE HIGHWAY 274 AND HIGHWAY 203 SOUTH, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 0.35 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 11.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64 mm CAP STAMPED "070002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	070002
<b>Geodetic Azimuth</b>	88 37 23
<b>Grid Azimuth</b>	88 56 10

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070003	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 278	<b>Job Number:</b> 070239,070373,070284,070285
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 496,625.6462		<b>Latitude</b> 33 32 13.2967716
<b>Easting (M)</b> 358,285.1550		<b>Longitude</b> 92 26 56.8793688
<b>Elevation (M)*</b> 60.780		<b>Ellipsoid Height (M):</b> 34.539
<b>Northing (SFT)</b> 1,629,345.9742		<b>Geoid Height (M):</b> -26.010
<b>Easting (SFT)</b> 1,175,473.8794		
<b>Elevation (SFT)*</b> 199.408		

  

<b>Convergence Angle</b> 0 15 4.9523244	<b>Location Description</b>
<b>Scale Factor</b> 0.999955902	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND HIGHWAY 274, EAST OF HAMPTON, THE STATION IS LOCATED SOUTH OF THIS T INTERSECTION. SOUTH 16.3 METERS OF THE CENTERLINE OF HIGHWAY 278 AND NORTH 2.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "070003 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999904618	
<b>Combined Adjust. Factor</b> 0.9999463642	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	106	6.70	22.0
MK # 2	COMBINATION POLE	98	8.70	28.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 AHTD LROC	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2 CSAL C.O.R.S.	
Ref Mon # 3 IULM C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070003A	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 278	<b>Job Number:</b> 070239,070373,070284,070285
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 496,690.2632		<b>Latitude</b> 33 32 15.2803644
<b>Easting (M)</b> 357,493.6270		<b>Longitude</b> 92 27 27.5700132
<b>Elevation (M)*</b> 62.920		<b>Ellipsoid Height (M):</b> 36.679
<b>Northing (SFT)</b> 1,629,557.9718		<b>Geoid Height (M):</b> -26.014
<b>Easting (SFT)</b> 1,172,877.0079		
<b>Elevation (SFT)*</b> 206.432		

  

<b>Convergence Angle</b> 0 15 22.1295923	<b>Location Description</b>
<b>Scale Factor</b> 0.999955819	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND HIGHWAY 274, EAST OF HAMPTON, GO WEST ON HIGHWAY 278 0.45 MILE TO THE STATION ON THE RIGHT. 8.5 METERS NORTH OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "070003A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999901258	
<b>Combined Adjust. Factor</b> 0.9999459453	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE W/GUY	53	23.60	77.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 AHTD LROC	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2 CSAL C.O.R.S.	
Ref Mon # 3 IULM C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070004	<b>Date Monumented</b> 10/20/2004	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 167	<b>Job Number:</b> 070268,070373,070282
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	475,839.8322	
<b>Easting (M)</b>	350,711.5710	
<b>Elevation (M)*</b>	34.407	
<b>Northing (SFT)</b>	1,561,151.1828	
<b>Easting (SFT)</b>	1,150,626.2125	
<b>Elevation (SFT)*</b>	112.884	

  

<b>Convergence Angle</b>	0	17	46.9168116
<b>Scale Factor</b>	0.999989442		
<b>Elevation Adjust. Factor</b>	0.9999946005		
<b>Combined Adjust. Factor</b>	0.9999840425		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest corner of bridge	141	2.70	8.9
MK # 2	North end of concrete curb	061	5.20	17.1
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="CORS Hope"/> <b>Ref Mon # 2</b> <input type="text" value="IULM"/> <b>Ref Mon # 3</b> <input type="text" value="UAM AFRC SIS"/>	3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 113.0616'). Updated elevation derived from NGS 1st Order level run from X 198 & Y 198 and from NGS River Crossing in April 2012.

  

<b>Vertical Determined By:</b> 1st Order - NGS	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    20    57.4432044
<b>Longitude</b>	92    31    46.2615060
<b>Ellipsoid Height (M):</b>	12.404
<b>Geoid Height (M):</b>	-26.159

  

Location Description
The station is set near the north end of the highway 167 bridge over the Ouchita river. 9.10 meters southeast of the center of Hwy-167 and 2.45 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "070004 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070005	<b>Date Monumented</b> 10/20/2004	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 163	<b>Job Number:</b> 070268,070373,070283
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	480,907.7951	
<b>Easting (M)</b>	354,287.6960	
<b>Elevation (M)*</b>	32.629	
<b>Northing (SFT)</b>	1,577,778.3244	
<b>Easting (SFT)</b>	1,162,358.8826	
<b>Elevation (SFT)*</b>	107.050	

  

<b>Convergence Angle</b>	0	16	30.0343834
<b>Scale Factor</b>	0.999980270		
<b>Elevation Adjust. Factor</b>	0.9999948795		
<b>Combined Adjust. Factor</b>	0.9999751496		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the north end of a bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.20 miles to the station on the right. 11.10 meters southeast of the center of Hwy-167 and 11.40 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "070005 2004" set on top of an iron rod 1.22 meters in length and driven flush with the ground.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	None			
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> <input type="text" value="CORS Hope"/> <b>Ref Mon # 2</b> <input type="text" value="IULM"/> <b>Ref Mon # 3</b> <input type="text" value="UAM AFRC SIS"/>	<b>Comments</b> <p>3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 107.2423') . Updated elev.derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070005A	<b>Date Monumented</b> 10/20/2004	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 167	<b>Job Number:</b> 070268,070373,070283
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,486.7201	
<b>Easting (M)</b>	354,666.3170	
<b>Elevation (M)*</b>	33.064	
<b>Northing (SFT)</b>	1,579,677.6809	
<b>Easting (SFT)</b>	1,163,601.0750	
<b>Elevation (SFT)*</b>	108.479	

  

<b>Convergence Angle</b>	0	16	21.8940426
<b>Scale Factor</b>	0.999979263		
<b>Elevation Adjust. Factor</b>	0.9999948111		
<b>Combined Adjust. Factor</b>	0.9999740742		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the north end of the bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.60 miles to the station on the left. 14.0 meters from the center of the junction of Hwy-167 and Union county road 30, 7.30 meters northwest of the center of Hwy-167 and 5.40 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "070005A 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fiber optic manhole	088	22.80	74.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 CORS Hope	<p>3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005 (elev. 108.6647'). Updated elev. derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2 IULM	
Ref Mon # 3 UAM AFRC SIS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070006	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> Cr 27	<b>Job Number:</b> 001914,070373,070283,070284
--------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 486,680.5181		<b>Latitude</b> 33 26 50.0510148
<b>Easting (M)</b> 355,299.3650		<b>Longitude</b> 92 28 50.7974448
<b>Elevation (M)*</b> 34.838		<b>Ellipsoid Height (M):</b> 8.739
		<b>Geoid Height (M):</b> -26.086

  

<b>Northing (SFT)</b> 1,596,717.6665		<b>Location Description</b>
<b>Easting (SFT)</b> 1,165,678.0000		To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to county road 27 on the left, turn left on CR 27 and go 0.35 miles to the station on the right. 29.2 feet north of CR27 and 1.65 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "070006 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.
<b>Elevation (SFT)*</b> 114.296		
<b>Convergence Angle</b> 0 16 8.7112106		
<b>Scale Factor</b> 0.999970619		
<b>Elevation Adjust. Factor</b> 0.9999945329		
<b>Combined Adjust. Factor</b> 0.9999651520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	208	14.70	48.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
<b>Ref Mon # 2</b> 700014,270005 070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070006A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070373,070283,070284
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 486,409.6582		<b>Latitude</b> 33 26 41.3306160
<b>Easting (M)</b> 355,769.8710		<b>Longitude</b> 92 28 32.5310988
<b>Elevation (M)*</b> 35.199		<b>Ellipsoid Height (M):</b> 9.106
		<b>Geoid Height (M):</b> -26.086

  

<b>Northing (SFT)</b> 1,595,829.0203		<b>Location Description</b>
<b>Easting (SFT)</b> 1,167,221.6518		To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to the station on the left. 42.3 feet west of Hwy-167, 50.5 feet south of CR27 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070006A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.
<b>Elevation (SFT)*</b> 115.481		

  

<b>Convergence Angle</b> 0 15 58.4877069	
<b>Scale Factor</b> 0.999971050	
<b>Elevation Adjust. Factor</b> 0.9999944762	
<b>Combined Adjust. Factor</b> 0.9999655264	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser box	250	13.90	45.6
MK # 2	Wooden sign "Antioch Bap. Church"	273	13.70	44.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070007	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070373,070284
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	491,783.8921	
<b>Easting (M)</b>	356,168.7440	
<b>Elevation (M)*</b>	48.459	
<b>Northing (SFT)</b>	1,613,460.9860	
<b>Easting (SFT)</b>	1,168,530.2876	
<b>Elevation (SFT)*</b>	158.985	

  

<b>Convergence Angle</b>	0	15	50.3806681
<b>Scale Factor</b>	0.999962768		
<b>Elevation Adjust. Factor</b>	0.9999923953		
<b>Combined Adjust. Factor</b>	0.9999551636		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser	284	5.40	17.7
<b>MK # 2</b>	North end of 18 inch RCP	158	13.60	44.6
<b>MK # 3</b>	South end of 18 inch RCP	12	19.20	63.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

  

Location Description	
To reach the station from the Calhoun and Union county line north of Calion on Hwy-167, go north on Hwy-167 for 11.3 miles to the station on the left. 57.6 feet northwest of the center of Hwy-167, 67.6 feet north of a gravel drive and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap on top of a 4 foot by 5/8 inch rebar set just below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070007A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070373,070284
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	491,222.8621	
<b>Easting (M)</b>	356,181.9940	
<b>Elevation (M)*</b>	47.145	
<b>Northing (SFT)</b>	1,611,620.3401	
<b>Easting (SFT)</b>	1,168,573.7586	
<b>Elevation (SFT)*</b>	154.676	

  

<b>Convergence Angle</b>	0	15	50.0373476
<b>Scale Factor</b>	0.999963599		
<b>Elevation Adjust. Factor</b>	0.9999926014		
<b>Combined Adjust. Factor</b>	0.9999562007		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Right of way marker	010	9.75	32.0
<b>MK # 2</b>	Power pole	0	19.40	63.6
<b>MK # 3</b>	24 inch plastic culvert	204	7.30	24.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    29    17.6226036
<b>Longitude</b>	92    28    17.4328320
<b>Ellipsoid Height (M):</b>	21.072
<b>Geoid Height (M):</b>	-26.050

  

Location Description
To reach the station from the Calhoun and Union county north of Calion on Hwy-167 go north on Hwy-167 for 10.95 miles to the station on the right in front of the "Happy Home Assembly of God church". 60.4 feet southeast of the center of Hwy-167, 43 feet north of a concret drive and 1.65 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "070007A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070008	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070373,070285,070286
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 501,480.3021		<b>Latitude</b> 33 34 50.6030664
<b>Easting (M)</b> 356,435.4370		<b>Longitude</b> 92 28 9.4365804
<b>Elevation (M)*</b> 66.270		<b>Ellipsoid Height (M):</b> 40.262
<b>Northing (SFT)</b> 1,645,273.2911		<b>Geoid Height (M):</b> -25.998
<b>Easting (SFT)</b> 1,169,405.2629		
<b>Elevation (SFT)*</b> 217.421		

  

<b>Convergence Angle</b> 0 15 45.5619200	<b>Location Description</b>
<b>Scale Factor</b> 0.999949619	<p>To reach the station from the junction of Hwy-167 and Hwy-278 in Hampton go north on Hwy-167 for 3.20 miles to the station on the left. 50.3 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070008 2005" set on top of a 4 foot long by 5/8 inch round rebar and is driven just below the surface.</p>
<b>Elevation Adjust. Factor</b> 0.9999896002	
<b>Combined Adjust. Factor</b> 0.9999392197	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Mail box	020	33.00	108.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM, S 197, K 124 <b>Ref Mon # 2</b> 700014, 270005    070003, 0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070008A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070373,070285,070286
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 502,200.4642		<b>Latitude</b> 33 35 13.9853724
<b>Easting (M)</b> 356,481.3810		<b>Longitude</b> 92 28 7.7827980
<b>Elevation (M)*</b> 67.823		<b>Ellipsoid Height (M):</b> 41.834
		<b>Geoid Height (M):</b> -25.995

  

<b>Northing (SFT)</b> 1,647,636.0230		<b>Location Description</b>
<b>Easting (SFT)</b> 1,169,555.9975		<p>To reach the station from the junction of Hwy-167 and 278 in Hampton go north on Hwy-167 for 3.65 miles to the station on the right. 38 feet east of the center of Hwy-167 and 5.90 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070008A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.</p>
<b>Elevation (SFT)*</b> 222.516		
<b>Convergence Angle</b> 0 15 44.6363134		
<b>Scale Factor</b> 0.999948735		
<b>Elevation Adjust. Factor</b> 0.9999893565		
<b>Combined Adjust. Factor</b> 0.9999380920		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CM	053	11.20	36.7
<b>MK # 2</b>	Center of a box culvert	046	2.80	9.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
<b>Ref Mon # 2</b> 700014,270005 070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070009	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070285,070286
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,766.7961	
<b>Easting (M)</b>	356,593.8870	
<b>Elevation (M)*</b>	77.911	
<b>Northing (SFT)</b>	1,665,898.2302	
<b>Easting (SFT)</b>	1,169,925.1109	
<b>Elevation (SFT)*</b>	255.613	

  

<b>Convergence Angle</b>	0	15	42.7464728
<b>Scale Factor</b>	0.999942327		
<b>Elevation Adjust. Factor</b>	0.9999877734		
<b>Combined Adjust. Factor</b>	0.9999301011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of Hwys 167 and 278 in Hampton go north on Hwy-167 for 6.95 miles to the station on the left. 52.5 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	271	1.80	5.9
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM, IULM,S 197,K 124</p> <p><b>Ref Mon # 2</b>    700014,270005    070003,0700</p> <p><b>Ref Mon # 3</b>    T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070009A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070285,070286
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,312.2831	
<b>Easting (M)</b>	356,580.3000	
<b>Elevation (M)*</b>	74.235	
<b>Northing (SFT)</b>	1,664,407.0488	
<b>Easting (SFT)</b>	1,169,880.5343	
<b>Elevation (SFT)*</b>	243.552	

  

<b>Convergence Angle</b>	0	15	42.9964376
<b>Scale Factor</b>	0.999942822		
<b>Elevation Adjust. Factor</b>	0.9999883503		
<b>Combined Adjust. Factor</b>	0.9999311729		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 6.65 miles to the station on the left. 51.5 feet from the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the grounds surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete right of way marker	271	2.30	7.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM, IULM,S 197,K 124</p> <p><b>Ref Mon # 2</b>    700014,270005    070003,0700</p> <p><b>Ref Mon # 3</b>    T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070010	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	510,729.2552	
<b>Easting (M)</b>	356,664.7190	
<b>Elevation (M)*</b>	86.470	
<b>Northing (SFT)</b>	1,675,617.5648	
<b>Easting (SFT)</b>	1,170,157.4989	
<b>Elevation (SFT)*</b>	283.694	

  

<b>Convergence Angle</b>	0	15	41.5017707
<b>Scale Factor</b>	0.999939226		
<b>Elevation Adjust. Factor</b>	0.9999864302		
<b>Combined Adjust. Factor</b>	0.9999256570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 8.70 miles to the station on the left and the Mt. Pleasant Cemetery on the right. 59.4 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070010 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with a guy wire	180	35.45	116.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, 1ULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.         </td> </tr> </table>	Comments	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Comments			
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070010A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,129.8412	
<b>Easting (M)</b>	356,728.2850	
<b>Elevation (M)*</b>	75.000	
<b>Northing (SFT)</b>	1,676,931.8207	
<b>Easting (SFT)</b>	1,170,366.0484	
<b>Elevation (SFT)*</b>	246.063	

  

<b>Convergence Angle</b>	0	15	40.1604245
<b>Scale Factor</b>	0.999938823		
<b>Elevation Adjust. Factor</b>	0.9999882302		
<b>Combined Adjust. Factor</b>	0.9999270539		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 9.0 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070010A 2005" set on top of a 4 foot long by 5/8 inch rebar and driven to just below the ground surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Highway mile marker #9	304	20.15	66.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b>  Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070011	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286,070287
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	514,592.8041	
<b>Easting (M)</b>	356,841.4140	
<b>Elevation (M)*</b>	75.893	
<b>Northing (SFT)</b>	1,688,293.2248	
<b>Easting (SFT)</b>	1,170,737.2058	
<b>Elevation (SFT)*</b>	248.993	

  

<b>Convergence Angle</b>	0	15	38.0446849
<b>Scale Factor</b>	0.999935506		
<b>Elevation Adjust. Factor</b>	0.9999880900		
<b>Combined Adjust. Factor</b>	0.9999235968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 11.15 miles to the station on the right. 60 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	007	2.00	6.6
MK # 2	Power service with guy	005	4.90	16.1
MK # 3	Water meter	086	4.65	15.3

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	ARCM, IULM,S 197,K 124	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
<b>Ref Mon # 2</b>	700014,270005    070003,0700	
<b>Ref Mon # 3</b>	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070011A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286,070287
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,262.7142	
<b>Easting (M)</b>	356,665.4880	
<b>Elevation (M)*</b>	76.668	
<b>Northing (SFT)</b>	1,690,491.0882	
<b>Easting (SFT)</b>	1,170,160.0219	
<b>Elevation (SFT)*</b>	251.535	

  

<b>Convergence Angle</b>	0	15	41.9348443
<b>Scale Factor</b>	0.999934899		
<b>Elevation Adjust. Factor</b>	0.9999879684		
<b>Combined Adjust. Factor</b>	0.9999228682		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north 11.60 miles to the station on the right. 50.85 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011A 2005" on top of a 4 foot long by 5/8 inch rebar driven to just below the ground surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NR			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b> Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070012	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286,070287
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	517,993.3881	
<b>Easting (M)</b>	356,055.7000	
<b>Elevation (M)*</b>	82.593	
<b>Northing (SFT)</b>	1,699,449.9741	
<b>Easting (SFT)</b>	1,168,159.4091	
<b>Elevation (SFT)*</b>	270.974	

  

<b>Convergence Angle</b>	0	15	55.4641743
<b>Scale Factor</b>	0.999932539		
<b>Elevation Adjust. Factor</b>	0.9999870386		
<b>Combined Adjust. Factor</b>	0.9999195785		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.4 miles to the station on the left. 32.3 feet southwest of the center of Hwy-167, 20.3 feet south of a gravel drive and 18.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the ground surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.         </td> </tr> </table>	Comments	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Comments			
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070012A	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 167	<b>Job Number:</b> 001914,070286,070287
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	518,829.0291	
<b>Easting (M)</b>	355,975.1980	
<b>Elevation (M)*</b>	82.794	
<b>Northing (SFT)</b>	1,702,191.5730	
<b>Easting (SFT)</b>	1,167,895.2954	
<b>Elevation (SFT)*</b>	271.632	

  

<b>Convergence Angle</b>	0	15	57.2987990
<b>Scale Factor</b>	0.999931853		
<b>Elevation Adjust. Factor</b>	0.9999870071		
<b>Combined Adjust. Factor</b>	0.9999188610		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.90 miles to the station on the left. 34.12 feet southwest of the center of Hwy-167 and 17.4 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070013	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 79	<b>Job Number:</b> 001914,070287
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,683.1852	
<b>Easting (M)</b>	356,453.7650	
<b>Elevation (M)*</b>	111.417	
<b>Northing (SFT)</b>	1,721,398.0834	
<b>Easting (SFT)</b>	1,169,465.3940	
<b>Elevation (SFT)*</b>	365.540	

  

<b>Convergence Angle</b>	0	15	47.4774585
<b>Scale Factor</b>	0.999927523		
<b>Elevation Adjust. Factor</b>	0.9999825154		
<b>Combined Adjust. Factor</b>	0.9999100397		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 205 and 79 west of Thornton go north on Hwy-79 for 1.6 miles to the station on the right northeast of the junction of Hwy-79 and 79B. 235.9 feet southeast of the center of Hwy-79 and 1.65 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "070013 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2 inch persimmon tree	299	19.30	63.3
MK # 2	4 inch pine tree	358	26.85	88.1
MK # 3	2 inch twin locust tree	018	15.80	51.8

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	ARCM, IULM,S 197,K 124	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
<b>Ref Mon # 2</b>	700014,270005    070003,0700	
<b>Ref Mon # 3</b>	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070013A	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Calhoun	<b>Route</b> 79	<b>Job Number:</b> 001914,070287
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,932.5082	
<b>Easting (M)</b>	356,871.0380	
<b>Elevation (M)*</b>	106.312	
<b>Northing (SFT)</b>	1,722,216.0707	
<b>Easting (SFT)</b>	1,170,834.3972	
<b>Elevation (SFT)*</b>	348.791	

  

<b>Convergence Angle</b>	0	15	38.4232538
<b>Scale Factor</b>	0.999927356		
<b>Elevation Adjust. Factor</b>	0.9999833165		
<b>Combined Adjust. Factor</b>	0.9999106737		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 205 and 79 west of Thornton go north on Hwy-79 for 1.90 miles to the station on the left. 36.75 feet northwest of the center of Hwy-79, 58.4 feet southeast of the center of the old road bed and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070013A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, &amp; 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge &amp; 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 &amp; Y 198 and NGS River Crossing in April 2012.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070014	<b>Date Monumented</b> 1/26/2010	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 070BR3, 070345
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	506,619.4802	
<b>Easting (M)</b>	333,030.7480	
<b>Elevation (M)*</b>	41.257	
<b>Northing (SFT)</b>	1,662,134.0780	
<b>Easting (SFT)</b>	1,092,618.3791	
<b>Elevation (SFT)*</b>	135.358	

  

<b>Convergence Angle</b>	0	24	14.3295594
<b>Scale Factor</b>	0.999943738		
<b>Elevation Adjust. Factor</b>	0.9999935254		
<b>Combined Adjust. Factor</b>	0.9999372638		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	302	10.64	34.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, CSAL <b>Ref Mon # 2</b> S 197 <b>Ref Mon # 3</b> SHRV	Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    37    32.9932056
<b>Longitude</b>	92    43    18.4523124
<b>Ellipsoid Height (M):</b>	15.147
<b>Geoid Height (M):</b>	-26.113

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 274 AND STATE HIGHWAY 203, IN EAST CAMDEN, GO WEST ON 274 FOR 0.4 MILES TO THE MARK ON THE RIGHT, WEST 32.5 FEET FROM C/L OF EXIT ROAD FROM SAU TECH, 3.8 FEET WEST FROM END OF A SIDEWALK AND EAST 1.1 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "070014 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070014A	<b>Date Monumented</b> 1/26/2010	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 070BR3, 070345
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	506,907.9492	
<b>Easting (M)</b>	333,599.9170	
<b>Elevation (M)*</b>	40.895	
<b>Northing (SFT)</b>	1,663,080.4967	
<b>Easting (SFT)</b>	1,094,485.7277	
<b>Elevation (SFT)*</b>	134.168	

  

<b>Convergence Angle</b>	0	24	2.0134691
<b>Scale Factor</b>	0.999943413		
<b>Elevation Adjust. Factor</b>	0.9999935824		
<b>Combined Adjust. Factor</b>	0.9999369957		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HIDRANT	73	24.45	80.2
<b>MK # 2</b>	SEWER MAN HOLE	323	23.23	76.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> S 197, ARLR	Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.
<b>Ref Mon # 2</b> CSAL	
<b>Ref Mon # 3</b> SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070015	<b>Date Monumented</b> 3/28/2017	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 172	<b>Job Number:</b> 070379
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	487,122.0904	0.0020			
<b>Easting (M)</b>	359,987.3587	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,598,166.3916				
<b>Easting (SFT)</b>	1,181,058.5260				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	14	27.1588027
<b>Scale Factor</b>	0.999969882		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF 36" CMP	272	21.95	72.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR & ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM & X 196 IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARMO, LTEC	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.5 MILES TO THE MARK ON THE LEFT, 24' NORTH OF THE CENTERLINE OF THE HIGHWAY, 32.1' SOUTHEAST OF THE CENTER OF A GATE AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	070015A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070015A	<b>Date Monumented</b> 3/28/2017	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 172	<b>Job Number:</b> 070379
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	487,090.2957	0.0020	
<b>Easting (M)</b>	360,361.4807	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,598,062.0785		
<b>Easting (SFT)</b>	1,182,285.9579		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	14	19.0480102
<b>Scale Factor</b>	0.999969930		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.75 MILES TO THE MARK ON THE LEFT, 24.4' NORTH OF THE CENTERLINE OF THE HIGHWAY, 121' EAST OF THE C/L OF A DRIVEWAY AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    ARMO, LTEC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR &amp; ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM &amp; X 196 IN FINAL NETWORK ADJUSTMENT.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070016	<b>Date Monumented</b> 11/16/2017	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> CR 90	<b>Job Number:</b> 070435
--------------------------	--------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	504,709.8375	0.0030	
<b>Easting (M)</b>	354,710.2294	0.0020	
<b>Elevation (M)*</b>	66.762		
<b>Northing (SFT)</b>	1,655,868.8585		
<b>Easting (SFT)</b>	1,163,745.1443		
<b>Elevation (SFT)*</b>	219.034		

  

<b>Convergence Angle</b>	0	16	23.3408943
<b>Scale Factor</b>	0.999945762		
<b>Elevation Adjust. Factor</b>	0.9999895230		
<b>Combined Adjust. Factor</b>	0.9999352856		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER CONCRETE SLAB	321	7.01	23.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 36 35.1674352
<b>Longitude</b>	92 29 16.9363176
<b>Ellipsoid Height (M):</b>	40.686
<b>Geoid Height (M):</b>	-26.076

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 12' OF THE C/L OF THE ROAD AND WEST 28.6' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070016A	<b>Date Monumented</b> 11/16/2017	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> CR 90	<b>Job Number:</b> 070435
---------------------------	--------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	505,075.4302	0.0030			
<b>Easting (M)</b>	354,716.3666	0.0020			
<b>Elevation (M)*</b>	68.949				
<b>Northing (SFT)</b>	1,657,068.3072				
<b>Easting (SFT)</b>	1,163,765.2794				
<b>Elevation (SFT)*</b>	226.209				

  

<b>Convergence Angle</b>	0	16	23.2454834
<b>Scale Factor</b>	0.999945340		
<b>Elevation Adjust. Factor</b>	0.9999891798		
<b>Combined Adjust. Factor</b>	0.9999345204		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	9	18.44	60.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARMO	

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN RIGHT (NORTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, EAST 10.9' OF THE C/L OF THE ROAD AND WEST 9.3' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	070016
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070017	<b>Date Monumented</b> 11/27/2018	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 203	<b>Job Number:</b> 070510
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	509,181.6881	0.0020			
<b>Easting (M)</b>	335,736.5121	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,670,540.2550				
<b>Easting (SFT)</b>	1,101,495.5401				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	23	15.9485604
<b>Scale Factor</b>	0.999940943		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.5 MILES TO STATION ON RIGHT. 31.5' S OF THE C/L SR-203. 45' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	070017A
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARCM	<p>STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS &amp; ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP &amp; ARMO AND ON 1ST ORDER NGS BM's S 197 &amp; MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.</p>
Ref Mon # 2    ARHP	
Ref Mon # 3    ARMO, ARGS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 070017A	<b>Date Monumented</b> 11/27/2018	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 203	<b>Job Number:</b> 070510
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	509,337.7373	0.0020			
<b>Easting (M)</b>	336,212.2627	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,671,052.2265				
<b>Easting (SFT)</b>	1,103,056.3985				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	23	5.6372620
<b>Scale Factor</b>	0.999940776		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	301	18.00	59.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS & ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP & ARMO AND ON 1ST ORDER NGS BM's S 197 & MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARMO, ARGS	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 39 1.9336968
<b>Longitude</b>	92 41 15.7197048
<b>Ellipsoid Height (M):</b>	16.888 0.0060
<b>Geoid Height (M):</b>	-26.183 0.0060

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.8 MILES TO STATION ON RIGHT. 26.0' S OF THE C/L SR-203. 61' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017A 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080001	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 219,989.7941		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 248,046.4420		<b>Latitude</b> 36 18 15.9165828
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 41 30.8111280
<b>Northing (SFT)</b> 721,749.8495		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 813,799.0351		<b>Geoid Height (M):</b> -28.779
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 59 4.2376844	<b>Location Description</b> FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO NORTHEAST 217 FEET ALONG THE ROAD, THEN WEST AT A RIGHT ANGLE FROM ROAD 100 FEET TO THE STATION LOCATED IN HAL SOUTHERLAND'S PASTURE.
<b>Scale Factor</b> 1.000014830	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 			
<b>Latitude</b> 			
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080001
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080002	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	220,184.4801	
<b>Easting (M)</b>	247,940.6040	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	722,388.5818	
<b>Easting (SFT)</b>	813,451.7983	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	6.7838895
<b>Scale Factor</b>	1.000015212		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    PENSION Ref Mon # 2    NONE Ref Mon # 3    NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old point number 90080002</td> </tr> </table>	Comments	Old point number 90080002
Comments			
Old point number 90080002			

  

Location Description
FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO NORTHEAST ALONG THE ROAD 525 FEET TO A FIELD ROAD ON THE LEFT, THEN WESTERLY ALONG A FIELD ROAD 520 FEET, THEN NORTH 60 FEET TO THE STATION IN HAL SOUTHERLAND,S FIELD.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080003	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 220,811.7471		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 249,728.4930		<b>Latitude</b> 36 18 43.5111552
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 40 23.9617560
<b>Northing (SFT)</b> 724,446.5403		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 819,317.5641		<b>Geoid Height (M):</b> -28.796
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 58 25.3380932	<b>Location Description</b>  FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 1.63 MILES TO A FIELD ROAD ON THE LEFT ON HUGH LIEDTKE'S PROPERTY, THEN NORTHEAST ALONG A FIELD ROAD 426 FEET, THEN EASTERLY 10 FEET TO THE STATION.
<b>Scale Factor</b> 1.000016521	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PENSION	Old point number 90080003
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080004	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	220,944.3311	
<b>Easting (M)</b>	249,397.5480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	724,881.5263	
<b>Easting (SFT)</b>	818,231.7887	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	58	33.1091272
<b>Scale Factor</b>	1.000016775		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    PENSION Ref Mon # 2    NONE Ref Mon # 3    NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old point number 90080004</td> </tr> </table>	Comments	Old point number 90080004
Comments			
Old point number 90080004			

  

Location Description
FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 1.63 MILES TO A FIELD ROAD ON THE LEFT ON HUGH LENDKE'S PROPERTY, THEN NORTHEAST ALONG A FIELD ROAD 1710 FEET, THEN EASTERLY 9 FEET TO THE STATION.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080005	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	221,295.5980	
<b>Easting (M)</b>	251,247.6700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	726,033.9744	
<b>Easting (SFT)</b>	824,301.7307	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	57	50.0972937
<b>Scale Factor</b>	1.000017542		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 12" WHITE OAK	270	27.43	90.0
<b>MK # 2</b>	NBC IN 14" WHITE OAK	180	20.12	66.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PENSION	Old point number 90080005
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080006	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 221,392.9881		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 251,145.2880		<b>Latitude</b> 36 19 3.1425996
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 39 27.5694444
<b>Northing (SFT)</b> 726,353.4951		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 823,965.8324		<b>Geoid Height (M):</b> -28.810
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 57 52.5234562	<b>Location Description</b>  FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 2.71 MILES TO A FIELD ROAD ON THE RIGHT, THEN SOUTHERNLY 114 FEET TO STATION.
<b>Scale Factor</b> 1.000017735	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE	0	0.00	0.0	90080005	
MK # 2	NONE	0	0.00	0.0	132 36 13	
MK # 3	NONE	0	0.00	0.0	133 34 06	

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080006
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080007	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 223,893.6540		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 253,441.3710		<b>Latitude</b> 36 20 25.5023052
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 37 57.1987668
<b>Northing (SFT)</b> 734,557.7632		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 831,498.8980		<b>Geoid Height (M):</b> -28.852
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 56 59.9368377	<b>Location Description</b>  FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 5.42 MILES TO A FIELD ROAD ON THE RIGHT, THEN 663 FEET ALONG THE NORTH SIDE OF THE FIELD, THEN SOUTHWESTERLY 36 FEET TO THE STATION.
<b>Scale Factor</b> 1.000022927	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 			
<b>Latitude</b> 			
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE	0	0.00	0.0	90080008	
MK # 2	NONE	0	0.00	0.0	131 04 50	
MK # 3	NONE	0	0.00	0.0	132 01 50	

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080007
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080008	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 223,819.6421		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 253,523.4820		<b>Latitude</b> 36 20 23.1457056
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 37 53.8574304
<b>Northing (SFT)</b> 734,314.9425		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 831,768.2905		<b>Geoid Height (M):</b> -28.852
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 56 57.9925170	<b>Location Description</b>  FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 5.42 MILES TO A FIELD ROAD ON THE RIGHT, THEN 300 FEET ALONG THE NORTH SIDE OF THE FIELD, THEN SOUTHWESTERLY 42 FEET TO THE STATION.
<b>Scale Factor</b> 1.000022776	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 			
<b>Latitude</b> 			
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE	0	0.00	0.0	90080007	
MK # 2	NONE	0	0.00	0.0	311 04 52	
MK # 3	NONE	0	0.00	0.0	312 01 50	

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080008
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080009	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 224,970.5290		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 256,857.3570		<b>Latitude</b> 36 21 2.2493916
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 35 40.9367004
<b>Northing (SFT)</b> 738,090.8106		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 842,706.1788		<b>Geoid Height (M):</b> -28.882
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 55 40.6460601	<b>Location Description</b>  FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE FIRST NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 165 FEET TO THE STATION.
<b>Scale Factor</b> 1.000025295	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	Old point number 90080009     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080010	<b>Date Monumented</b> 8/27/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> 9647
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	224,896.2191	
<b>Easting (M)</b>	257,037.5930	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	737,847.0122	
<b>Easting (SFT)</b>	843,297.5030	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	55	36.4124199
<b>Scale Factor</b>	1.000025145		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> PENSION <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080010
--	--

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 20 59.9336016
<b>Longitude</b>	93 35 33.6611436
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-28.882

Location Description
FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE SECOND NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 72 FEET TO THE STATION.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080011	<b>Date Monumented</b> 9/13/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> R90017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,528.5260	
<b>Easting (M)</b>	273,311.5720	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	654,619.8391	
<b>Easting (SFT)</b>	896,689.7158	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	8.2091369
<b>Scale Factor</b>	0.999980157		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE STATION IS 200 FEET NORTH OF THE CARROLL AND NEWTON COUNTY LINE ON THE LEFT SIDE OF HWY. 103, 100 FEET WEST OF A POWER LINE IN A CLEARED PASTURE, 250 FEET WEST OF THE CENTERLINE OF HWY 103 AND 3.75 FEET EAST OF WITNESS POST.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: BURLINGTON RESET Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  Old point number 90080011 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080012	<b>Date Monumented</b> 9/13/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> R90017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,754.3829	
<b>Easting (M)</b>	273,440.8310	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	655,360.8379	
<b>Easting (SFT)</b>	897,113.7930	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	5.2765601
<b>Scale Factor</b>	0.999980494		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 10" BLACK GUM	10	19.35	63.5
<b>MK # 2</b>	NBC IN 26" WALNUT	133	25.24	82.8
<b>MK # 3</b>	NBC IN POWER POLE	180	15.51	50.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <span style="border: 1px solid black; padding: 2px;">BURLINGTON RESET</span>	Old point number 90080012 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
<b>Ref Mon # 2</b> <span style="border: 1px solid black; padding: 2px;">NONE</span>	
<b>Ref Mon # 3</b> <span style="border: 1px solid black; padding: 2px;">NONE</span>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 7 32.4525108
<b>Longitude</b>	93 24 21.4899012
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-28.710

Location Description
FROM THE CARROLL AND NEWTON COUNTY LINE, GO NORTH 0.15 MILES ALONG HWY. 103 TO THE STATION ON THE LEFT. THE STATION IS 110 FEET LEFT OF THE CENTERLINE OF HWY. 103, 60 FEET NORTH OF A CROSS FENCE AND 3.82 FEET EAST OF WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080013	<b>Date Monumented</b> 9/17/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> R90017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 202,577.5120		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 272,172.8850		<b>Latitude</b> 36 9 3.4469028
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 25 13.8207072
<b>Northing (SFT)</b> 664,623.0540		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 892,953.8735		<b>Geoid Height (M):</b> -28.723
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 49 35.7278105	<b>Location Description</b>  THE STATION IS IN A PASTURE ON THE RIGHT SIDE OF HWY. 103, 125 FEET FROM A FIELD ENTRANCE, 120 FEET FROM AN 18" WALNUT AND A 10" MULBERRY GROWING TOGETHER AND 2 FEET WEST OF WITNESS POST.
<b>Scale Factor</b> 0.999984757	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 18" WALNUT	219	27.07	88.8
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	Old point number 90080013 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080014	<b>Date Monumented</b> 9/17/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> R90017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 202,920.2800		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 272,247.3280		<b>Latitude</b> 36 9 14.6013696
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 25 11.0406792
<b>Northing (SFT)</b> 665,747.6186		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 893,198.1086		<b>Geoid Height (M):</b> -28.727
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 49 34.1101146	<b>Location Description</b> THE STATION IS ON THE RIGHT SIDE OF HWY. 103 BETWEEN THE CREEK AND HWY. 103 AND IS 2.6 FEET WEST OF WITNESS POST.
<b>Scale Factor</b> 0.999985293	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	308	29.11	95.5
MK # 2	NBC IN TOP OF FENCE POST	340	23.73	77.9
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b> Old point number 90080014 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080015	<b>Date Monumented</b> 9/18/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> 90219,R90104,R90017,09063
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	206,138.6940 0.0003
<b>Easting (M)</b>	273,724.8983 0.0003
<b>Elevation (M)*</b>	401.695
<b>Northing (SFT)</b>	676,306.6986
<b>Easting (SFT)</b>	898,045.7705
<b>Elevation (SFT)*</b>	1,317.894

  

<b>Convergence Angle</b>	0 49 0.7848044
<b>Scale Factor</b>	0.999990486
<b>Elevation Adjust. Factor</b>	0.9999369649
<b>Combined Adjust. Factor</b>	0.9999274515

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36 10 59.6961048		
<b>Longitude</b>	93 24 13.7704284		
<b>Ellipsoid Height:</b>	373.744		
<b>Grid Northing (Meters)</b>	206,138.7020		
<b>Grid Easting (Meters)</b>	273,724.9070		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN GUARD RAIL POST	306	10.97	36.0
MK # 2	NORTH END OF CMP	201	28.40	93.2
MK # 3	TELEPHONE BOX	175	39.30	128.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> AROZ	DIGITAL LEVELS RAN BY CREW S5101 IN MAY 2023 FROM NGS BM 1335.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080016	<b>Date Monumented</b> 9/18/1990	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> R90104,R90017,090639
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	206,512.1537	0.0003
<b>Easting (M)</b>	273,729.9396	0.0003
<b>Elevation (M)*</b>	399.762	
<b>Northing (SFT)</b>	677,531.9576	
<b>Easting (SFT)</b>	898,062.3102	
<b>Elevation (SFT)*</b>	1,311.552	

  

<b>Convergence Angle</b>	0	49	0.7914090
<b>Scale Factor</b>	0.999991102		
<b>Elevation Adjust. Factor</b>	0.9999372682		
<b>Combined Adjust. Factor</b>	0.9999283708		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	36	11	11.8267080
<b>Longitude</b>	93	24	13.7790576
<b>Ellipsoid Height:</b>	370.992		
<b>Grid Northing (Meters)</b>	206,512.5640		
<b>Grid Easting (Meters)</b>	273,730.0220		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF THE CENTER OF 3 0.60 METE	359	36.07	118.3
MK # 2	WEST END OF THE CENTER OF 3 0.60 METE	332	42.96	141.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	ARHR
<b>Ref Mon # 2</b>	ARFY
<b>Ref Mon # 3</b>	AROZ

  

Comments
Old point number 90080016. 3wire elevations were ran from NGS 1335 under Job # R90104 by S5103 UPDATED MAY 2023 DURING JOB 090639 DIGITAL LEVELS FROM NGS 1335

  

Location Description
THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 103 SOUTH, LOCATED ABOUT 0.42 KM (0.26 MI ) NORTH OF OSAGE. THE STATION IS LOCATED 46.34 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 8.735 METERS EAST OF THE CENTER OF STATE HIGHWAY 103. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "90080016" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88	
<b>Geoid Datum:</b>	GEOID18	
<b>Latitude</b>	36	11 11.8133599
<b>Longitude</b>	93	24 13.7821201
<b>Ellipsoid Height (M):</b>	370.992	
<b>Geoid Height (M):</b>	-28.772	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080017	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 412	<b>Job Number:</b> R90104
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	214,796.7150	
<b>Easting (M)</b>	281,154.9640	
<b>Elevation (M)*</b>	360.613	
<b>Northing (SFT)</b>	704,712.2225	
<b>Easting (SFT)</b>	922,422.5777	
<b>Elevation (SFT)*</b>	1,183.111	

  

<b>Convergence Angle</b>	0	46	10.4776828
<b>Scale Factor</b>	1.000005837		
<b>Elevation Adjust. Factor</b>	0.9999434113		
<b>Combined Adjust. Factor</b>	0.9999492479		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 WEST FOR 4.43 KM (2.75 MI) TO THE JUNCTION OF COUNTY ROAD 20 AND THE STATION ON THE RIGHT. THE STATION IS 23.50 METERS WEST OF THE CENTER OF COUNTY ROAD 20, 20.60 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 12.70 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.60 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	24	3.20	10.5
MK # 2	EAST POST OF METAL LINE FENCE BRACE	225	12.50	41.0
MK # 3	WOODEN CORNER POST	15	16.88	55.4

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080017A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 412	<b>Job Number:</b> R90104
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	214,460.1840		
<b>Easting (M)</b>	280,824.9150		
<b>Elevation (M)*</b>	370.086		
<b>Northing (SFT)</b>	703,608.1203		
<b>Easting (SFT)</b>	921,339.7420		
<b>Elevation (SFT)*</b>	1,214.190		

  

<b>Convergence Angle</b>	0	46	18.0650961
<b>Scale Factor</b>	1.000005203		
<b>Elevation Adjust. Factor</b>	0.9999419248		
<b>Combined Adjust. Factor</b>	0.9999471275		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	198	34.48	113.1
<b>MK # 2</b>	POWER POLE	9	36.37	119.3
<b>MK # 3</b>	1.016 METER WHITE OAK	206	28.52	93.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> HUNTSVILLE <b>Ref Mon # 2</b> BURLINGTON RESET <b>Ref Mon # 3</b> MARBLE	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 15 32.8396212
<b>Longitude</b>	93 19 34.1351760
<b>Ellipsoid Height (M):</b>	341.182
<b>Geoid Height (M):</b>	-28.904

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE RIGHT. 11.8 METERS NORTHWEST OF THE CENTER OF U.S. 412 AND 0.37 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080018	<b>Date Monumented</b>	<b>Monumented By</b> USC&GS	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> R90104,090101
--------------------------	------------------------	--------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 200,658.0819		<b>Geoid Datum:</b>
<b>Easting (M)</b> 260,378.8200		<b>Latitude</b> 36 7 55.4054808
<b>Elevation (M)*</b> 435.871		<b>Longitude</b> 93 33 4.3668000
<b>Northing (SFT)</b> 658,325.7237		<b>Ellipsoid Height (M):</b> 409.036
<b>Easting (SFT)</b> 854,259.5120		<b>Geoid Height (M):</b> -28.625
<b>Elevation (SFT)*</b> 1,430.020		

  

<b>Convergence Angle</b> 0 54 9.5381716	<b>Location Description</b>
<b>Scale Factor</b> 0.999981551	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO SOUTH ON STATE HIGHWAY 21 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE, 14.96 METER WEST OF THE CENTER OF STATE HIGHWAY 21, 1.40 METERS SOUTHEAST OF A NGS WITNESS POST AND 0.75 METERS EAST OF A WITNESS POST. THE STATION IS A NGS DISK SET IN TOP A CONCRETE POST STAMPED "MARBLE 1971" SET FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999316023	
<b>Combined Adjust. Factor</b> 0.9999131546	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	70	31.07	101.9
<b>MK # 2</b>	WOODEN BRACE POST FOR GATE	185	20.61	67.6
<b>MK # 3</b>	CHERRY TREE	0	23.46	77.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HUNTSVILLE	This is the NGS Marble Triangulation Station. 3 wire levels were ran under Job # R90101 from NGS Q145 by S5103
<b>Ref Mon # 2</b> BURLINGTON RESET	
<b>Ref Mon # 3</b> MARBLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080018A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> R90104,090101
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	201,006.4179	
<b>Easting (M)</b>	260,425.9480	
<b>Elevation (M)*</b>	420.519	
<b>Northing (SFT)</b>	659,468.5561	
<b>Easting (SFT)</b>	854,414.1311	
<b>Elevation (SFT)*</b>	1,379.653	

  

<b>Convergence Angle</b>	0	54	8.5691692
<b>Scale Factor</b>	0.999982077		
<b>Elevation Adjust. Factor</b>	0.9999340112		
<b>Combined Adjust. Factor</b>	0.9999160894		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE. THE STATION IS 54.888 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.15 METERS EAST OF THE CENTER OF STATE HIGHWAY 21, 5.17 METERS NORTH OF THE CENTER OF THE ENTRANCE TO CAINS REAL ESTATE AND AUCTION COMPANY AND 0.83 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080018 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN BRACE POST FOR GATE	89	0.90	3.0
<b>MK # 2</b>	SOUTH END OF EAST HEADWALL OF DOUB LE BOX	338	35.36	116.0
<b>MK # 3</b>	COMBINATION POLE	171	19.36	63.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HUNTSVILLE <b>Ref Mon # 2</b> BURLINGTON RESET <b>Ref Mon # 3</b> MARBLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080019	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 412	<b>Job Number:</b> R90104,090202,090639
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 210,865.4207	<b>0.0003</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 279,989.8794	<b>0.0003</b>	<b>Latitude</b> 36 13 35.8591692
<b>Elevation (M)*</b> 420.906		<b>Longitude</b> 93 20 5.6302800
<b>Northing (SFT)</b> 691,814.3011		<b>Ellipsoid Height (M):</b> 392.717
<b>Easting (SFT)</b> 918,600.1293		<b>Geoid Height (M):</b> -28.113
<b>Elevation (SFT)*</b> 1,380.922		

  

<b>Convergence Angle</b> 0 46 36.3920696	<b>Scale Factor</b> 0.999998685
<b>Elevation Adjust. Factor</b> 0.9999339505	<b>Combined Adjust. Factor</b> 0.9999326356

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 8.77 KM (5.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.60 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 11.74 METERS EAST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 080019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF GARAGE	353	45.08	147.9
MK # 2	NORTHWEST CORNER OF ROCK HOUSE	78	33.25	109.1
MK # 3	WOODEN CORNER POST	170	37.85	124.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARHR	
Ref Mon # 2 ARFY	
Ref Mon # 3 AROZ	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
080019A_RESET	4/22/1997	ARDOT	CARROLL	412	090639

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	210,444.3036	0.0003			
<b>Easting (M)</b>	280,028.1763	0.0003			
<b>Elevation (M)*</b>	414.664	0.0015			
<b>Northing (SFT)</b>	690,432.6861				
<b>Easting (SFT)</b>	918,725.7751				
<b>Elevation (SFT)*</b>	1,360.443				

  

<b>Convergence Angle</b>	0	46	35.3668355
<b>Scale Factor</b>	0.999997946		
<b>Elevation Adjust. Factor</b>	0.9999349299		
<b>Combined Adjust. Factor</b>	0.9999328761		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	13	22.2298068
<b>Longitude</b>	93	20	3.8644224
<b>Ellipsoid Height:</b>	385.806		
<b>Grid Northing (Meters)</b>	210,444.7630		
<b>Grid Easting (Meters)</b>	280,028.2820		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	14.90	48.9
MK # 2	CENTER WOODEN POST OF FENCE LINE BR	260	25.15	82.5
MK # 3	TELEPHONE JUNCTION BOX	319	33.55	110.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> AROZ	**CAP IS STAMPED 080037** POINT NUMBER WAS DUPLICATED WITH 080037 IN JOB 090424 ALONG HWY 23.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080020	<b>Date Monumented</b> 12/30/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090197,R90079,090346
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,584.3380	
<b>Easting (M)</b>	259,776.4980	
<b>Elevation (M)*</b>	391.269	
<b>Northing (SFT)</b>	736,823.7823	
<b>Easting (SFT)</b>	852,283.3939	
<b>Elevation (SFT)*</b>	1,283.688	

  

<b>Convergence Angle</b>	0	54	32.3880676
<b>Scale Factor</b>	1.000024583		
<b>Elevation Adjust. Factor</b>	0.9999386009		
<b>Combined Adjust. Factor</b>	0.9999631824		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 21 SOUTH, LOCATED ON THE EAST SIDE OF BERRYVILLE, GO SOUTH ON STATE HIGHWAY 21 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.836 METERS NORTH OF THE CENTER OF A PAVED PASTURE ENTRANCE, 10.885 METERS EAST OF THE CENTER OF STATE HIGHWAY 21 AND 1.085 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080020 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX		167	109.44	359.1
MK # 2	GAS METER		271	79.47	260.7
MK # 3	WOODEN CORNER POST		308	91.69	300.8

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	<p>Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.</p>
Ref Mon # 2	ARP2	
Ref Mon # 3	ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080021	<b>Date Monumented</b> 12/30/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> R90079
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,841.1540	
<b>Easting (M)</b>	256,500.7200	
<b>Elevation (M)*</b>	341.307	
<b>Northing (SFT)</b>	737,666.3527	
<b>Easting (SFT)</b>	841,536.1122	
<b>Elevation (SFT)*</b>	1,119.771	

  

<b>Convergence Angle</b>	0	55	48.9187343
<b>Scale Factor</b>	1.000025011		
<b>Elevation Adjust. Factor</b>	0.9999464407		
<b>Combined Adjust. Factor</b>	0.9999714503		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221 ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.447 METERS NORTH OF THE CENTER OF STATE HIGHWAY 221 AND 1.280 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021 1997" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	WEST IN-LINE WOODEN FENCE POST	80	18.26	59.9	
<b>MK # 2</b>	GUY POLE	133	31.04	101.8	
<b>MK # 3</b>	GUY POLE	258	61.31	201.2	

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	CASSPORT	
<b>Ref Mon # 2</b>	TA-05	
<b>Ref Mon # 3</b>	ARP2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080021A	<b>Date Monumented</b> 12/30/1997	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 221	<b>Job Number:</b> R90079
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,812.5711	
<b>Easting (M)</b>	256,834.2830	
<b>Elevation (M)*</b>	334.397	
<b>Northing (SFT)</b>	737,572.5770	
<b>Easting (SFT)</b>	842,630.4768	
<b>Elevation (SFT)*</b>	1,097.101	

  

<b>Convergence Angle</b>	0	55	41.1247575
<b>Scale Factor</b>	1.000024962		
<b>Elevation Adjust. Factor</b>	0.9999475250		
<b>Combined Adjust. Factor</b>	0.9999724857		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221 ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 221 AND 0.67 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE	89	32.62	107.0	
MK # 2	POWER POLE	265	26.96	88.4	
MK # 3	WOODEN CORNER POST	313	37.27	122.3	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="CASSPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="TA-05"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="ARP2"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080022	<b>Date Monumented</b> 11/29/1999	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 009830
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	236,139.1021	
<b>Easting (M)</b>	243,575.2160	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	774,733.0375	
<b>Easting (SFT)</b>	799,129.6878	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	0	55.1794988
<b>Scale Factor</b>	1.000049817		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	148	24.44	80.2
<b>MK # 2</b>	PIPE CORNER POST	100	14.70	48.2
<b>MK # 3</b>	WOODEN CORNER POST	290	5.97	19.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> SALLISAW 1 CORS ARP <b>Ref Mon # 2</b> NEODSHA CORS ARP <b>Ref Mon # 3</b> CONWAY CORS ARP	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 26 57.2106732
<b>Longitude</b>	93 44 41.4658464
<b>Ellipsoid Height (M):</b>	305.342
<b>Geoid Height (M):</b>	-28.220

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 187, LOCATED ABOUT 3.21 KM (2.00 MI) NORTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.08 KM (0.05 MI) TO THE ENTRANCE TO A CEMETERY AND THE STATION ON THE LEFT. THE STATION IS 78.46 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 23 AND 0.48 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080022 1999" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	080022A
<b>Geodetic Azimuth</b>	340 16 52.53077
<b>Grid Azimuth</b>	341 17 47.58465

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080022A	<b>Date Monumented</b> 11/29/1999	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 187	<b>Job Number:</b> 009830
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	237,570.3772	
<b>Easting (M)</b>	243,090.6600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	779,428.8125	
<b>Easting (SFT)</b>	797,539.9404	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	7.0942773
<b>Scale Factor</b>	1.000053224		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 187, LOCATED ABOUT 3.21 KM (2.00 MI) NORTH OF EUREKA SPRINGS, GO WEST ON STATE HIGHWAY 187 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE, 5.75 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 187 AND 1.08 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080022A 1999" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WOODEN GATE POST	162	6.35	20.8		080022
MK # 2	NONE					160 16 40.36412
MK # 3	NONE					161 17 47.58465

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALLISAW 1 CORS ARP	
Ref Mon # 2 NEODSHA CORS ARP	
Ref Mon # 3 CONWAY CORS ARP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080023	<b>Date Monumented</b> 2/8/2001	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 187	<b>Job Number:</b> 090100
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	239,080.1375	
<b>Easting (M)</b>	241,116.0194	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	784,382.0844	
<b>Easting (SFT)</b>	791,061.4736	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	53.8685028
<b>Scale Factor</b>	1.000056808		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	343	15.35	50.4
<b>MK # 2</b>	POWER POLE	77	31.85	104.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> TA-05 <b>Ref Mon # 2</b> CASSPORT <b>Ref Mon # 3</b> 080020	

  

Location Description			
TO REACH THE STATION FROM THE U.S. POST OFFICE AT BEAVER, ARKANSAS GO NORTHWEST ON STATE HIGHWAY 187 (MAIN STREET) FOR .322 KM (0.2MI) TO THE STATION ON THE LEFT. THE STATION IS 32.65 METERS WEST OF THE CENTER OF FEATHER CREEK DRIVE, 7.82 METERS SOUTH OF THE CENTER OF HIGHWAY 187, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.			

  

<b>AZ Mark Station</b>	080023A
<b>Geodetic Azimuth</b>	21 46 17.034115
<b>Grid Azimuth</b>	22 48 10.965211

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080023A	<b>Date Monumented</b> 2/8/2001	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 187	<b>Job Number:</b> 090100
---------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	239,694.7124	
<b>Easting (M)</b>	241,374.4014	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	786,398.4023	
<b>Easting (SFT)</b>	791,909.1819	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	48.0884247
<b>Scale Factor</b>	1.000058329		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE AT BEAVER, ARKANSAS GO SOUTHEAST ON HWY. 187 (MAIN STREET) FOR 0.161KM (0.1MI), TO A ONE LANE BRIDGE CROSSING WHITE RIVER THENCE CONTINUE ON HWY. 187 FOR 1.287KM (0.8MI) TO COUNTY ROAD 254 LEFT (WOODSDALE DR.) LEADING TO HOLIDAY ISLAND, THENCE LEFT ON SAID ROAD FOR 1.448KM (0.9MI) TO STATELINE DR. TO THE RIGHT AND A THREE WAY STOP, CONTINUE ON WOODSDALE DR. FOR 1.207KM (0.75MI) CROSSING LEATHERWOOD CREEK BRIDGE TO THE ISLAND AND SHIELD'S DR. TO THE LEFT, THENCE LEFT ON SHIELD'S DR. TO FOR 1.127KM (0.7MI) TO APPALOOSA DR. TO THE LEFT. THENCE LEFT ON APPALOOSA DR. FOR .885KM (0.55MI) TO A SHARP TURN TO THE LEFT AND AN OVERLOOK ON THE RIGHT. THE STATION IS ON THE RIGHT, AND SOUTH SIDE OF THE OVERLOOK. THE STATION IS 17.25 METERS SOUTH OF APPALOOSA DR., AND 4.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080023A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	320	17.10	56.1
<b>MK # 2</b>	PROPERTY PIN STAMPED RLS 1302	105	6.35	20.8
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> TA-05</p> <p><b>Ref Mon # 2</b> CASSPORT</p> <p><b>Ref Mon # 3</b> 080020</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080024	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090149
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,424.8661	
<b>Easting (M)</b>	260,650.3870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	739,581.4149	
<b>Easting (SFT)</b>	855,150.4780	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	54	12.3068211
<b>Scale Factor</b>	1.000026383		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	109	27.15	89.1
<b>MK # 2</b>	CORRRIGATED METAL PIPE	122	29.90	98.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NDS1, OKMU	
<b>Ref Mon # 2</b> CNWM	
<b>Ref Mon # 3</b> AHTD HAR1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 21 18.9534672
<b>Longitude</b>	93 33 9.1247544
<b>Ellipsoid Height (M):</b>	354.853
<b>Geoid Height (M):</b>	-28.143

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 0.61 MILES TO THE STATION ON THE LEFT. THE STATION IS 34.00 METERS WEST OF THE CENTER OF CARTER STREET, 16.15 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080024 2002" SET ON TOP OF AN IRON ROD 0.37 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080024A	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090149
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,178.4141	
<b>Easting (M)</b>	261,083.5260	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	738,772.8469	
<b>Easting (SFT)</b>	856,571.5349	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	54	2.1089730
<b>Scale Factor</b>	1.000025876		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	113	13.10	43.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NDS1, OKMU	
Ref Mon # 2 CNWM	
Ref Mon # 3 AHTD HAR1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 21 11.1803544
<b>Longitude</b>	93 32 51.5996412
<b>Ellipsoid Height (M):</b>	350.687
<b>Geoid Height (M):</b>	-28.141

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 0.92 MILES TO THE STATION ON THE RIGHT ON TOP OF A HIGH BANK. THE STATION IS 21.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62 AND 2.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080024A 2002" SET ON TOP OF AN IRON ROD 0.41 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080025	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090149,090330
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,744.1221	
<b>Easting (M)</b>	264,969.6180	
<b>Elevation (M)*</b>	429.420	
<b>Northing (SFT)</b>	737,348.0073	
<b>Easting (SFT)</b>	869,321.1551	
<b>Elevation (SFT)*</b>	1,408.855	

  

<b>Convergence Angle</b>	0	52	31.2726989
<b>Scale Factor</b>	1.000025088		
<b>Elevation Adjust. Factor</b>	0.9999326146		
<b>Combined Adjust. Factor</b>	0.9999577009		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CORRIGATED METAL PIPE	138	15.50	50.9
<b>MK # 2</b>	EAST POST OF CHURCH SIGN	216	4.12	13.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NDS1, OKMU	ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.
<b>Ref Mon # 2</b> CNWM	
<b>Ref Mon # 3</b> AHTD HAR1	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 20 59.0466588
<b>Longitude</b>	93 30 15.4965132
<b>Ellipsoid Height (M):</b>	401.510
<b>Geoid Height (M):</b>	-28.139

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 3.47 MILES TO THE STATION ON THE RIGHT IN FRONT OF THE MIDWAY FULL GOSPEL CHURCH. THE STATION IS 18.30 METERS NORTH OF THE CENTER OF THE CHURCH DRIVE, 16.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080025 2002" SET ON TOP OF AN IRON ROD 0.46 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	080025A
<b>Geodetic Azimuth</b>	150 11 46
<b>Grid Azimuth</b>	151 04 17

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080025A	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090149,090330
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,026.5081	
<b>Easting (M)</b>	265,366.2300	
<b>Elevation (M)*</b>	421.942	
<b>Northing (SFT)</b>	734,993.6353	
<b>Easting (SFT)</b>	870,622.3729	
<b>Elevation (SFT)*</b>	1,384.321	

  

<b>Convergence Angle</b>	0	52	21.7631263
<b>Scale Factor</b>	1.000023598		
<b>Elevation Adjust. Factor</b>	0.9999337880		
<b>Combined Adjust. Factor</b>	0.9999573844		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	229	7.95	26.1
<b>MK # 2</b>	CROSS TIE CORNER POST	273	11.50	37.7
<b>MK # 3</b>	SOUTHEAST END CORRIGATED METAL PIP	324	10.85	35.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NDS1, OKMU	ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.
<b>Ref Mon # 2</b> CNWM	
<b>Ref Mon # 3</b> AHTD HAR1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080026	<b>Date Monumented</b> 1/14/2003	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 090167,090073,090424
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	220,686.5631	0.0030			
<b>Easting (M)</b>	241,811.9076	0.0030			
<b>Elevation (M)*</b>	491.973				
<b>Northing (SFT)</b>	724,035.8324				
<b>Easting (SFT)</b>	793,344.5669				
<b>Elevation (SFT)*</b>	1,614.081				

  

<b>Convergence Angle</b>	-1	1	29.9152478
<b>Scale Factor</b>	1.000015996		
<b>Elevation Adjust. Factor</b>	0.9999227994		
<b>Combined Adjust. Factor</b>	0.9999387942		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, ARLR	SEE STATION 080026OLD_DATUMS FOR PREVIOUS TWO DATUMS NAD 83 (1986 & 1997) ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> MOCS	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12A
<b>Latitude</b>	36 18 34.9711560
<b>Longitude</b>	93 45 41.1596100
<b>Ellipsoid Height (M):</b>	463.865 0.0040
<b>Geoid Height (M):</b>	-28.088 0.0040

  

Location Description
TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080026A	<b>Date Monumented</b> 1/14/2003	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 090167,090073
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,259.0401	
<b>Easting (M)</b>	241,822.7280	
<b>Elevation (M)*</b>	494.859	
<b>Northing (SFT)</b>	722,633.2007	
<b>Easting (SFT)</b>	793,380.0668	
<b>Elevation (SFT)*</b>	1,623.550	

  

<b>Convergence Angle</b>	-1	1	29.4845431
<b>Scale Factor</b>	1.000015147		
<b>Elevation Adjust. Factor</b>	0.9999223465		
<b>Combined Adjust. Factor</b>	0.9999374924		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	18	21.1098708
<b>Longitude</b>	93	45	40.4192592
<b>Ellipsoid Height:</b>	466.826		
<b>Grid Northing (Meters)</b>	220,259.0406		
<b>Grid Easting (Meters)</b>	241,822.7325		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	175	9.40	30.8
MK # 2	POWER POLE	61	10.60	34.8
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> AHTD HAR 1, Russport <b>Ref Mon # 2</b> Moscogee CORS, Conway Mo. <b>Ref Mon # 3</b> Salisaw CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103
Comments			
ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103			

  

Location Description	
TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 0.57 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026A 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	18	21.1098492
<b>Longitude</b>	93	45	40.4194392
<b>Ellipsoid Height (M):</b>	466.826		
<b>Geoid Height (M):</b>	-28.033		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
0026OLD_DATUM	1/14/2003	AHTD	CARROLL	23	090167,090073

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,686.5571	
<b>Easting (M)</b>	241,811.8890	
<b>Elevation (M)*</b>	491.973	
<b>Northing (SFT)</b>	724,035.8128	
<b>Easting (SFT)</b>	793,344.5058	
<b>Elevation (SFT)*</b>	1,614.080	

  

<b>Convergence Angle</b>	-1	1	29.9156794
<b>Scale Factor</b>	1.000015996		
<b>Elevation Adjust. Factor</b>	0.9999227994		
<b>Combined Adjust. Factor</b>	0.9999387942		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	18	34.9713108
<b>Longitude</b>	93	45	41.1600312
<b>Ellipsoid Height:</b>	463.936		
<b>Grid Northing (Meters)</b>	220,686.5680		
<b>Grid Easting (Meters)</b>	241,811.8972		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AHTD HAR 1, Russport	ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103
Ref Mon # 2: Moscogee CORS, Conway Mo.	
Ref Mon # 3: Salisaw CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080027	<b>Date Monumented</b> 5/13/2003	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 9932
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	235,296.9091	
<b>Easting (M)</b>	239,534.7550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	771,969.9426	
<b>Easting (SFT)</b>	785,873.6087	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	29.2147878
<b>Scale Factor</b>	1.000047653		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 187 AND U.S. HIGHWAY 62 WEST OF EUREKA SPRINGS, GO WEST ON U.S. HIGHWAY 62 FOR 0.99 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS EAST OF THE CENTER OF A CONCRETE DRIVE, 12.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 1.18 METERS NORTH OF THE NORTH EDGE OF AN ASPHALT PARKING LOT, AND 1.90 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080027 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	70	11.50	37.7
MK # 2	TELEPHONE JUNCTION BOX	278	29.00	95.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CONWAY, MO</p> <p>Ref Mon # 2    NEODESHA, KS</p> <p>Ref Mon # 3    MUSKOGEE, OK    V-26</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080027A	<b>Date Monumented</b> 5/13/2003	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 9932
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	235,544.4751	
<b>Easting (M)</b>	239,012.9570	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	772,782.1654	
<b>Easting (SFT)</b>	784,161.6764	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	41.5091905
<b>Scale Factor</b>	1.000048214		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 187 AND U.S. HIGHWAY 62 WEST OF EUREKA SPRINGS, GO WEST ON U.S. HIGHWAY 62 FOR 1.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.85 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 1.70 METERS NORTH OF A CHAIN LINK FENCE, AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080027A 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK CORNER POST	289	6.80	22.3
MK # 2	POWER POLE	113	30.45	99.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CONWAY, MO</p> <p>Ref Mon # 2    NEODESHA, KS</p> <p>Ref Mon # 3    MUSKOGEE,OK    V-26</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080028	<b>Date Monumented</b> 12/3/2004	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090197,090346
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,037.2550	
<b>Easting (M)</b>	259,775.6310	
<b>Elevation (M)*</b>	386.223	
<b>Northing (SFT)</b>	738,309.7274	
<b>Easting (SFT)</b>	852,280.5494	
<b>Elevation (SFT)*</b>	1,267.133	

  

<b>Convergence Angle</b>	0	54	32.5759807
<b>Scale Factor</b>	1.000025534		
<b>Elevation Adjust. Factor</b>	0.9999393927		
<b>Combined Adjust. Factor</b>	0.9999649252		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATON POLE	208	11.00	36.1
<b>MK # 2</b>	GAS METER	353	32.50	106.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.
<b>Ref Mon # 2</b> ARP2	
<b>Ref Mon # 3</b> ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080029	<b>Date Monumented</b> 1/27/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 090073,090424
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	223,911.2112	0.0030	
<b>Easting (M)</b>	242,450.8596	0.0030	
<b>Elevation (M)*</b>	496.697		
<b>Northing (SFT)</b>	734,615.3654		
<b>Easting (SFT)</b>	795,440.8619		
<b>Elevation (SFT)*</b>	1,629.581		

  

<b>Convergence Angle</b>	-1	1	16.3546482
<b>Scale Factor</b>	1.000022571		
<b>Elevation Adjust. Factor</b>	0.9999220581		
<b>Combined Adjust. Factor</b>	0.9999446273		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	20	19.9385592
<b>Longitude</b>	93	45	17.8561116
<b>Ellipsoid Height:</b>	468.630		
<b>Grid Northing (Meters)</b>	223,911.2061		
<b>Grid Easting (Meters)</b>	242,450.8460		

  

Location Description				
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.25 MILES TO THE STATION MARK ON THE LEFT, EAST 28.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND AT THE NORTHWEST CORNER OF TINA JOHSON'S BLONDIE'S HAIR CARE METAL BUILDING. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND. THERE IS NO WITNESS POST.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	EAST END CATTLE GUARD GATE	203		4.40	14.4
MK # 2	NORTHWEST CORNER METAL BLDGING	137		7.50	24.6
MK # 3	TELEPHONE RISER	251		34.00	111.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY, ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> MOCS	NAD 83 (1997) DATUM REF MONUMENTS WERE NDS1, SALI, & CNWM.  ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080029A	<b>Date Monumented</b> 1/27/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 090073, 090424
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,202.0470	
<b>Easting (M)</b>	242,031.0350	
<b>Elevation (M)*</b>	483.193	
<b>Northing (SFT)</b>	732,288.7159	
<b>Easting (SFT)</b>	794,063.4873	
<b>Elevation (SFT)*</b>	1,585.276	

  

<b>Convergence Angle</b>	-1	1	25.8533529
<b>Scale Factor</b>	1.000021093		
<b>Elevation Adjust. Factor</b>	0.9999241770		
<b>Combined Adjust. Factor</b>	0.9999452684		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.85 MILES TO THE STATION MARK ON THE LEFT, EAST 14.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CNWM</p> <p>Ref Mon # 2: SALI</p> <p>Ref Mon # 3: NDS1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080030	<b>Date Monumented</b> 6/20/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> 009702,090330
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,117.6691	
<b>Easting (M)</b>	269,078.4730	
<b>Elevation (M)*</b>	412.288	
<b>Northing (SFT)</b>	732,011.8860	
<b>Easting (SFT)</b>	882,801.6235	
<b>Elevation (SFT)*</b>	1,352.649	

  

<b>Convergence Angle</b>	0	50	54.8343870
<b>Scale Factor</b>	1.000021829		
<b>Elevation Adjust. Factor</b>	0.9999353027		
<b>Combined Adjust. Factor</b>	0.9999571303		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	304	29.20	95.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: W.H. PHILLIPS	ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET
Ref Mon # 2: CNWM, ARP 2	
Ref Mon # 3: 080025, 080025A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080030A	<b>Date Monumented</b> 6/20/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> 009702,090330
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	222,727.8970				
<b>Easting (M)</b>	269,041.2790				
<b>Elevation (M)*</b>	412.931				
<b>Northing (SFT)</b>	730,733.1087				
<b>Easting (SFT)</b>	882,679.5962				
<b>Elevation (SFT)*</b>	1,354.757				

  

<b>Convergence Angle</b>	0	50	55.5674018
<b>Scale Factor</b>	1.000021025		
<b>Elevation Adjust. Factor</b>	0.9999352019		
<b>Combined Adjust. Factor</b>	0.9999562255		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF CULVERT	34	8.60	28.2
<b>MK # 2</b>	COMBINATION POLE	355	4.20	13.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> W.H. PHILLIPS	ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET
<b>Ref Mon # 2</b> CNWM, ARP 2	
<b>Ref Mon # 3</b> 080025, 080025A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080031	<b>Date Monumented</b> 6/20/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 009702
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 222,987.9451		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 272,347.9640		<b>Latitude</b> 36 20 5.6360292
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 25 18.6076524
<b>Northing (SFT)</b> 731,586.2832		<b>Ellipsoid Height (M):</b> 382.864
<b>Easting (SFT)</b> 893,528.2786		<b>Geoid Height (M):</b> -28.160
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 49 38.5133297	<b>Scale Factor</b> 1.000021660	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 0.80 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 			
<b>Latitude</b> 			
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	2.73	11.30	37.1
MK # 2	GUY WIRE	260	11.30	37.1
MK # 3	FIRE HYDRANDT #104	100	26.10	85.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 W.H. PHILLIPS	
Ref Mon # 2 CNWM, ARP 2	
Ref Mon # 3 080025, 080025A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080031A	<b>Date Monumented</b> 6/20/2005	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 009702
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	222,987.6311	
<b>Easting (M)</b>	272,878.7610	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	731,585.2530	
<b>Easting (SFT)</b>	895,269.7350	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	26.1298126
<b>Scale Factor</b>	1.000021675		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	80	13.10	43.0
<b>MK # 2</b>	WEST END OF CULVERT	114	6.30	20.7
<b>MK # 3</b>	EAST END OF CULVERT	238	4.05	13.3

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>W.H. PHILLIPS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CNWM, ARP 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>080025, 080025A</td> </tr> </table>	Ref Mon # 1	W.H. PHILLIPS	Ref Mon # 2	CNWM, ARP 2	Ref Mon # 3	080025, 080025A	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	W.H. PHILLIPS							
Ref Mon # 2	CNWM, ARP 2							
Ref Mon # 3	080025, 080025A							
Comments								

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 20 5.8739784
<b>Longitude</b>	93 24 57.3264432
<b>Ellipsoid Height (M):</b>	388.393
<b>Geoid Height (M):</b>	-28.164

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 1.1 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF A ROAD 8.70METERS., NORTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	0800331
<b>Geodetic Azimuth</b>	269 12 36
<b>Grid Azimuth</b>	270 02 02

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080032	<b>Date Monumented</b> 3/1/2006	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090219
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,357.2630	
<b>Easting (M)</b>	276,247.7780	
<b>Elevation (M)*</b>	345.533	
<b>Northing (SFT)</b>	726,236.2870	
<b>Easting (SFT)</b>	906,322.9183	
<b>Elevation (SFT)*</b>	1,133.636	

  

<b>Convergence Angle</b>	0	48	6.9982677
<b>Scale Factor</b>	1.000018444		
<b>Elevation Adjust. Factor</b>	0.9999457775		
<b>Combined Adjust. Factor</b>	0.9999642205		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 5.10 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 98.30 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 21.0 FEET OF A CONCRETE DR			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RIGHT OF WAY MARKER	86	1.15	3.8
MK # 2	NORTHEAST END METAL CULVERT	238	4.55	14.9
MK # 3	METAL GATE POST	329	2.40	7.9

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR	
Ref Mon # 2: CNWM	
Ref Mon # 3: 080031, 080031A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080032A	<b>Date Monumented</b> 3/1/2006	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090219
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,747.9161	
<b>Easting (M)</b>	275,944.2990	
<b>Elevation (M)*</b>	355.172	
<b>Northing (SFT)</b>	727,517.9547	
<b>Easting (SFT)</b>	905,327.2543	
<b>Elevation (SFT)*</b>	1,165.260	

  

<b>Convergence Angle</b>	0	48	14.2050261
<b>Scale Factor</b>	1.000019227		
<b>Elevation Adjust. Factor</b>	0.9999442650		
<b>Combined Adjust. Factor</b>	0.9999634910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOOD FENCE POST	90	7.80	25.6
<b>MK # 2</b>	WOOD FENCE POST	324	8.20	26.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	
<b>Ref Mon # 2</b> CNWM	
<b>Ref Mon # 3</b> 080031, 080031A	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 19 27.0720012
<b>Longitude</b>	93 22 53.7229128
<b>Ellipsoid Height (M):</b>	327.004
<b>Geoid Height (M):</b>	-28.168

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 5.40 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 101.50 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTHWEST 3.6 FEET OF A</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080033	<b>Date Monumented</b> 3/1/2006	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090219
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,697.0561	
<b>Easting (M)</b>	280,075.0000	
<b>Elevation (M)*</b>	407.744	
<b>Northing (SFT)</b>	717,508.5916	
<b>Easting (SFT)</b>	918,879.3958	
<b>Elevation (SFT)*</b>	1,337.740	

  

<b>Convergence Angle</b>	0	46	36.8832083
<b>Scale Factor</b>	1.000013255		
<b>Elevation Adjust. Factor</b>	0.9999360158		
<b>Combined Adjust. Factor</b>	0.9999492699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.10 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.30 FEET OF THE CENTERLINE OF THE HIGHWAY, SOUTH 3.40 FEET OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE W/PEDSTAL	274	17.40	57.1
MK # 2	WOOD CORNER FENCE POST	85	12.70	41.7
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARHR</p> <p>Ref Mon # 2    CNWM</p> <p>Ref Mon # 3    080031, 080031A</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080033A	<b>Date Monumented</b> 3/1/2006	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 090219
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	218,705.1060				
<b>Easting (M)</b>	279,652.2520				
<b>Elevation (M)*</b>	392.710				
<b>Northing (SFT)</b>	717,535.0019				
<b>Easting (SFT)</b>	917,492.4301				
<b>Elevation (SFT)*</b>	1,288.416				

  

<b>Convergence Angle</b>	0	46	46.7438484
<b>Scale Factor</b>	1.000013260		
<b>Elevation Adjust. Factor</b>	0.9999383748		
<b>Combined Adjust. Factor</b>	0.9999516340		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST POLE ON BILLBOARD	115	18.00	59.1
<b>MK # 2</b>	ONLY WOOD POST ON FENCE LINE	109	18.50	60.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	
<b>Ref Mon # 2</b> CNWM	
<b>Ref Mon # 3</b> 080031, 080031A	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 17 50.0283168
<b>Longitude</b>	93 20 23.4199248
<b>Ellipsoid Height (M):</b>	364.565
<b>Geoid Height (M):</b>	-28.145

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.3 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.50 FEET OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 2.70 FEET OF A WITNESS POS</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080034	<b>Date Monumented</b> 7/1/2008	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 009901,090346
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,870.2211	
<b>Easting (M)</b>	257,911.4660	
<b>Elevation (M)*</b>	387.575	
<b>Northing (SFT)</b>	747,604.2171	
<b>Easting (SFT)</b>	846,164.5347	
<b>Elevation (SFT)*</b>	1,271.569	

  

<b>Convergence Angle</b>	0	55	17.1378595
<b>Scale Factor</b>	1.000031540		
<b>Elevation Adjust. Factor</b>	0.9999391806		
<b>Combined Adjust. Factor</b>	0.9999707186		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 2.50 MILES TO THE STATION MARK ON THE LEFT, 21 FEET WEST OF THE CENTERLINE OF A PAVED DRIVEWAY, 62 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080034 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	STEEL SIGN POST		40	6.86	22.5
MK # 2	18" CMP		243	5.49	18.0
MK # 3	18" CMP		160	13.41	44.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR, ARFY <b>Ref Mon # 2</b> ARMH <b>Ref Mon # 3</b> Z 5, WH PHILLIPS	Original elevation (1271.5882') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080034A	<b>Date Monumented</b> 7/1/2008	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 009901,090346
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,512.5941	
<b>Easting (M)</b>	258,103.4420	
<b>Elevation (M)*</b>	393.492	
<b>Northing (SFT)</b>	746,430.9025	
<b>Easting (SFT)</b>	846,794.3760	
<b>Elevation (SFT)*</b>	1,290.980	

  

<b>Convergence Angle</b>	0	55	12.5227726
<b>Scale Factor</b>	1.000030770		
<b>Elevation Adjust. Factor</b>	0.9999382522		
<b>Combined Adjust. Factor</b>	0.9999690203		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 2.70 MILES TO THE STATION MARK ON THE LEFT AT THE BOTTOM OF A SLOPE , 130 FEET EAST OF THE CENTERLINE OF A ASPHALT DRIVEWAY, 36 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 25 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080034A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	080034
<b>Geodetic Azimuth</b>	350 51 10
<b>Grid Azimuth</b>	331 46 22

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR, ARFY	Original elevation (1290.9914') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.
<b>Ref Mon # 2</b> ARMH	
<b>Ref Mon # 3</b> Z 5, WH PHILLIPS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080035	<b>Date Monumented</b> 7/1/2008	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 62	<b>Job Number:</b> 009901
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,420.4500	
<b>Easting (M)</b>	254,534.4250	
<b>Elevation (M)*</b>	365.974	
<b>Northing (SFT)</b>	752,690.2597	
<b>Easting (SFT)</b>	835,085.0260	
<b>Elevation (SFT)*</b>	1,200.699	

  

<b>Convergence Angle</b>	0	56	36.5586259
<b>Scale Factor</b>	1.000034823		
<b>Elevation Adjust. Factor</b>	0.9999425701		
<b>Combined Adjust. Factor</b>	0.9999773911		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24' CMP	211	11.89	39.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARHR, ARFY	Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.
Ref Mon # 2    ARMH	
Ref Mon # 3    Z 5, WH PHILLIPS	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36   23   25.3612716
<b>Longitude</b>	93   37   17.0230548
<b>Ellipsoid Height (M):</b>	337.769
<b>Geoid Height (M):</b>	-28.174

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143N, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 67 FEET TO THE STATION MARK ON THE LEFT AT THE TOP OF A DITCH BANK, 67 FEET EAST OF THE CENTERLINE OF HIGHWAY 143N, 57 FEET NORTH OF THE EDGE OF HIGHWAY 62. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080035 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	080035A
<b>Geodetic Azimuth</b>	182 47 28
<b>Grid Azimuth</b>	183 44 04

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080035A	<b>Date Monumented</b> 7/1/2008	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> NA	<b>Job Number:</b> 009901
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	228,893.9961	
<b>Easting (M)</b>	254,500.0620	
<b>Elevation (M)*</b>	357.863	
<b>Northing (SFT)</b>	750,963.0522	
<b>Easting (SFT)</b>	834,972.2867	
<b>Elevation (SFT)*</b>	1,174.089	

  

<b>Convergence Angle</b>	0	56	37.1584050
<b>Scale Factor</b>	1.000033660		
<b>Elevation Adjust. Factor</b>	0.9999438428		
<b>Combined Adjust. Factor</b>	0.9999775009		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	283	15.85	52.0
<b>MK # 2</b>	NE CORNER CHURCH BLD	246	17.68	58.0
<b>MK # 3</b>	WATERWELL	201	13.87	45.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR, ARFY	Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.
<b>Ref Mon # 2</b> ARMH	
<b>Ref Mon # 3</b> Z 5, WH PHILLIPS	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 23 8.2664340
<b>Longitude</b>	93 37 18.0537816
<b>Ellipsoid Height (M):</b>	329.673
<b>Geoid Height (M):</b>	-28.169

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143N AND CARROLL COUNTY ROAD 980, WEST OF BERRYVILLE, GO SOUTH ON COUNTY ROAD 980 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF AIRWAY CHAPEL CHURCH, 24.0 FEET SOUTH OF THE CENTERLINE OF TRI STATE ROAD, 36 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 980 AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080035A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080036	<b>Date Monumented</b> 9/20/2010	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090283
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	233,887.5561				
<b>Easting (M)</b>	263,960.4620				
<b>Elevation (M)*</b>	358.451				
<b>Northing (SFT)</b>	767,346.0903				
<b>Easting (SFT)</b>	866,010.2824				
<b>Elevation (SFT)*</b>	1,176.017				

  

<b>Convergence Angle</b>	0	52	58.1077309
<b>Scale Factor</b>	1.000045313		
<b>Elevation Adjust. Factor</b>	0.9999437506		
<b>Combined Adjust. Factor</b>	0.9999890610		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 4.9 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 44.5 FEET AND NORTH 1..2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> U 5 OFFSET <b>Ref Mon # 3</b> MOBR	<b>Comments</b> 3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.
--	--

  

<b>AZ Mark Station</b>	080036A
<b>Geodetic Azimuth</b>	87 18 15
<b>Grid Azimuth</b>	88 11 13

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080036A	<b>Date Monumented</b> 9/20/2010	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090283
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	233,904.4261	
<b>Easting (M)</b>	264,493.4040	
<b>Elevation (M)*</b>	359.148	
<b>Northing (SFT)</b>	767,401.4380	
<b>Easting (SFT)</b>	867,758.7763	
<b>Elevation (SFT)*</b>	1,178.304	

  

<b>Convergence Angle</b>	0	52	45.6653342
<b>Scale Factor</b>	1.000045372		
<b>Elevation Adjust. Factor</b>	0.9999436412		
<b>Combined Adjust. Factor</b>	0.9999890106		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	80	12.95	42.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARHR	3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.
Ref Mon # 2: U 5 OFFSET	
Ref Mon # 3: MOBR	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 25 55.9461072
<b>Longitude</b>	93 30 40.2304140
<b>Ellipsoid Height (M):</b>	330.928
<b>Geoid Height (M):</b>	-28.220

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 5.2 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE HIGHWAY 38.7 FEET AND SOUTH 1..7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	080036
<b>Geodetic Azimuth</b>	267 18 28
<b>Grid Azimuth</b>	268 11 13

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080037	<b>Date Monumented</b> 10/21/2014	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 23	<b>Job Number:</b> 090424
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	220,248.5817    0.0030
<b>Easting (M)</b>	241,826.1162    0.0020
<b>Elevation (M)*</b>	494.481

  

<b>Northing (SFT)</b>	722,598.8885	
<b>Easting (SFT)</b>	793,391.1829	
<b>Elevation (SFT)*</b>	1,622.310	

  

<b>Convergence Angle</b>	-1	1	29.4011686
<b>Scale Factor</b>	1.000015126		
<b>Elevation Adjust. Factor</b>	0.9999224058		
<b>Combined Adjust. Factor</b>	0.9999375306		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	18	20.7725724
<b>Longitude</b>	93	45	40.2765948
<b>Ellipsoid Height:</b>	466.454		
<b>Grid Northing (Meters)</b>	220,248.5818		
<b>Grid Easting (Meters)</b>	241,826.1053		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 12, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 2.9 MILES TO THE MARK ON THE RIGHT, EAST 23 FEET OF THE EDGE OF THE PAVEMENT AND WEST 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 080037" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	20	30.90	101.4
<b>MK # 2</b>	POWER POLE W/2 GUYS	65	33.50	109.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, ARLR	ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> MOCS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080038	<b>Date Monumented</b> 12/6/2016	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090435
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	204,843.3091	0.0010	
<b>Easting (M)</b>	261,612.6842	0.0010	
<b>Elevation (M)*</b>	407.004		
<b>Northing (SFT)</b>	672,056.7566		
<b>Easting (SFT)</b>	858,307.6147		
<b>Elevation (SFT)*</b>	1,335.314		

  

<b>Convergence Angle</b>	0	53	42.3475557
<b>Scale Factor</b>	0.999988087		
<b>Elevation Adjust. Factor</b>	0.9999361318		
<b>Combined Adjust. Factor</b>	0.9999242196		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO THE MARK ON THE RIGHT, EAST 22.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF THE CENTERLINE OF GLISSON HOLLOW ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	228	79.00	259.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="ARFY"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ARHR"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="MOCS"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080038A	<b>Date Monumented</b> 12/6/2016	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> IN HOLL	<b>Job Number:</b> 090435
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	204,634.6840	0.0020	
<b>Easting (M)</b>	262,046.2773	0.0020	
<b>Elevation (M)*</b>	418.917		
<b>Northing (SFT)</b>	671,372.2924		
<b>Easting (SFT)</b>	859,730.1614		
<b>Elevation (SFT)*</b>	1,374.397		

  

<b>Convergence Angle</b>	0	53	32.1773322
<b>Scale Factor</b>	0.999987763		
<b>Elevation Adjust. Factor</b>	0.9999342626		
<b>Combined Adjust. Factor</b>	0.9999220264		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE POST/END OF FENCE	114	2.00	6.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.
Ref Mon # 2: ARHR	
Ref Mon # 3: MOCS	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 10 5.2542876
<b>Longitude</b>	93 32 0.1617900
<b>Ellipsoid Height (M):</b>	390.892 0.0050
<b>Geoid Height (M):</b>	-28.022 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO GLISSON HOLLOW ROAD ON THE RIGHT, TURN RIGHT HERE AND GO 0.3 MILE TO THE MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080039	<b>Date Monumented</b> 12/6/2016	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090435
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	210,107.5177 0.0020
<b>Easting (M)</b>	262,374.3045 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	689,327.7477	
<b>Easting (SFT)</b>	860,806.3640	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	53	26.5214822
<b>Scale Factor</b>	0.999996910		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1		251		
MK # 2		286		
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	36 13 2.9569188
<b>Longitude</b>	93 31 50.4421500
<b>Ellipsoid Height (M):</b>	394.976 0.0180
<b>Geoid Height (M):</b>	-28.070 0.0180

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.65 MILES TO THE MARK ON THE RIGHT, 28 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 12.6 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080039A	<b>Date Monumented</b> 12/6/2016	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090435
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	210,536.5013	0.0020	
<b>Easting (M)</b>	262,385.5694	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	690,735.1713		
<b>Easting (SFT)</b>	860,843.3223		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	53	26.4144235
<b>Scale Factor</b>	0.999997658		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="ARFY"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ARHR"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="MOCS"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 12A		
<b>Latitude</b>	36	13	16.8785652
<b>Longitude</b>	93	31	50.2581684
<b>Ellipsoid Height (M):</b>	389.498	0.0190	
<b>Geoid Height (M):</b>	-28.074	0.0190	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.9 MILES TO THE MARK ON THE LEFT, 17.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 23 FEET NORTH OF THE CENTERLINE OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080040	<b>Date Monumented</b> 6/4/2018	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090474, 090559
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	216,136.3420	0.0030	
<b>Easting (M)</b>	263,185.4343	0.0030	
<b>Elevation (M)*</b>	448.112		
<b>Northing (SFT)</b>	709,107.3154		
<b>Easting (SFT)</b>	863,467.5457		
<b>Elevation (SFT)*</b>	1,470.179		

  

<b>Convergence Angle</b>	0	53	9.7981586
<b>Scale Factor</b>	1.000007861		
<b>Elevation Adjust. Factor</b>	0.9999296816		
<b>Combined Adjust. Factor</b>	0.9999375421		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/GUY	110	19.29	63.3
MK # 2	CENTER HW	131	36.58	120.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 16 18.9346404
<b>Longitude</b>	93 31 21.7029360
<b>Ellipsoid Height (M):</b>	419.980 0.0130
<b>Geoid Height (M):</b>	-28.130 0.0130

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21S IN BERRYVILLE, GO SOUTH ON HIGHWAY 21 7.4 MILES TO THE MARK ON THE LEFT, NORTHEAST OF THE C/L OF THE HIGHWAY 19.8' AND 22' SOUTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2018 080040" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080040A	<b>Date Monumented</b> 6/4/2018	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090474, 090559
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	216,435.5660	0.0030	
<b>Easting (M)</b>	262,974.8099	0.0030	
<b>Elevation (M)*</b>	427.205		
<b>Northing (SFT)</b>	710,089.0195		
<b>Easting (SFT)</b>	862,776.5221		
<b>Elevation (SFT)*</b>	1,401.587		

  

<b>Convergence Angle</b>	0	53	14.8160785
<b>Scale Factor</b>	1.000008421		
<b>Elevation Adjust. Factor</b>	0.9999329622		
<b>Combined Adjust. Factor</b>	0.9999413826		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/2 GUYS	321	21.15	69.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080041	<b>Date Monumented</b> 9/16/2019	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090559
--------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	212,953.4963 0.0030
<b>Easting (M)</b>	263,412.9034 0.0030
<b>Elevation (M)*</b>	437.000
<b>Northing (SFT)</b>	698,664.9291
<b>Easting (SFT)</b>	864,213.8339
<b>Elevation (SFT)*</b>	1,433.726

  

<b>Convergence Angle</b>	0 53 3.3504414
<b>Scale Factor</b>	1.000001985
<b>Elevation Adjust. Factor</b>	0.9999314251
<b>Combined Adjust. Factor</b>	0.9999334100

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8 MILES TO THE MARK ON THE RIGHT, 17, SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	190	28.50	93.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> MOCS	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080041A	<b>Date Monumented</b> 9/16/2019	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 21	<b>Job Number:</b> 090559
---------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	213,323.6214 0.0030
<b>Easting (M)</b>	263,529.7891 0.0030
<b>Elevation (M)*</b>	448.560
<b>Northing (SFT)</b>	699,879.2479
<b>Easting (SFT)</b>	864,597.3164
<b>Elevation (SFT)*</b>	1,471.652

  

<b>Convergence Angle</b>	0	53	0.7597043
<b>Scale Factor</b>	1.000002659		
<b>Elevation Adjust. Factor</b>	0.9999296112		
<b>Combined Adjust. Factor</b>	0.9999322700		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8.25 MILES TO THE MARK ON THE RIGHT, 24.4' EAST OF THE C/L OF THE HIGHWAY AND 64' SOUTH OF THE C/L OF COUNTY ROAD 717. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY</p> <p><b>Ref Mon # 2</b>    ARHR</p> <p><b>Ref Mon # 3</b>    MOCS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080042	<b>Date Monumented</b> 5/4/2021	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> 090643
--------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	216,917.1414	0.0040	
<b>Easting (M)</b>	268,818.1129	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	711,668.9881		
<b>Easting (SFT)</b>	881,947.4254		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	50	58.7632326
<b>Scale Factor</b>	1.000009505		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of box culvert	40	27.00	88.6
MK # 2	South and West Fence Corner	346	20.70	67.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV MOBR</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	ARRV MOBR	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARFY						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARRV MOBR						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 16 47.0307576
<b>Longitude</b>	93 27 36.5179860
<b>Ellipsoid Height (M):</b>	361.442 0.0170
<b>Geoid Height (M):</b>	-28.169 0.0170

Location Description
From the intersection of US Hwy. 62 and State Hwy. 103. Go south on State Hwy. 103 for 4.1 miles to the station on the right. 36.8' West of the centerline of Hwy. 103

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080042A	<b>Date Monumented</b> 5/4/2021	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 103	<b>Job Number:</b> 090643
---------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	217,301.3787	0.0040			
<b>Easting (M)</b>	268,933.3854	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	712,929.6066				
<b>Easting (SFT)</b>	882,325.6153				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	50	56.2085602
<b>Scale Factor</b>	1.000010244		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence Corner	145	43.40	142.4
MK # 2	Combination Pole	62	40.30	132.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFY Ref Mon # 2    ARHR Ref Mon # 3    ARRV, MOBR	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 16 59.5504668
<b>Longitude</b>	93 27 32.1277536
<b>Ellipsoid Height (M):</b>	380.903 0.0170
<b>Geoid Height (M):</b>	-28.172 0.0170

Location Description
From the intersection of US Hwy. 62 and State Hwy. 103 in Green Forest. Go South on State Hwy. 103 for 3.85 miles to the station on the left. 20.1' East of the centerline of State Hwy. 103, 35.6' North of the centerline of a driveway

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090001	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,012.1161	
<b>Easting (M)</b>	463,008.0450	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,587,963.0842	
<b>Easting (SFT)</b>	1,519,052.2276	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	45.0600304
<b>Scale Factor</b>	0.999975148		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE ON THE EDGE OF A GRASS LANDING STRIP, 61 FEET WEST OF THE CENTERLINE OF HWY. 65, 195 FEET NORTH OF A FIELD ENTRANCE AND 11 FEET WEST OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	112	51.73	169.7
<b>MK # 2</b>	NBC IN POWER TRANSMISSION POLE	31	58.80	192.9
<b>MK # 3</b>	NBC IN POWER POLE	7	77.52	254.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91090001 SEE JOB R20089 IN FILE.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090002	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,466.2072	
<b>Easting (M)</b>	462,850.1470	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,589,452.8815	
<b>Easting (SFT)</b>	1,518,534.1906	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	41.7042390
<b>Scale Factor</b>	0.999974391		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE ON THE EDGE OF A GRASS LANDING STRIP, 56 FEET WEST OF THE CENTERLINE OF HWY. 65, 950 FEET SOUTH OF THE NORTH LANDING STRIP ENTRANCE AND 6.40 FEET WEST OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	129	86.93	285.2
<b>MK # 2</b>	NBC IN POWER TRANSMISSION POLE	92	38.63	126.7
<b>MK # 3</b>	NBC IN POWER POLE	0	94.98	311.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91090002 SEE JOB R20089 IN FILE.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090003	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	491,442.0962	
<b>Easting (M)</b>	460,358.0840	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,612,339.6106	
<b>Easting (SFT)</b>	1,510,358.1473	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	48.6718649
<b>Scale Factor</b>	0.999963408		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUARD RAIL POST	159	27.49	90.2
<b>MK # 2</b>	NBC IN POWER POLE	192	56.05	183.9
<b>MK # 3</b>	NBC IN POWER POLE	297	69.28	227.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91090003 SEE JOB R20089 IN FILE.
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 21.7991004
<b>Longitude</b>	91 21 1.7944596
<b>Ellipsoid Height (M):</b>	12.437
<b>Geoid Height (M):</b>	-26.743

Location Description
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 90.2 FEET NORTHEAST OF THE NORTHEAST HEADWALL OF A CROSS DRAIN, 44.83 FEET EAST OF THE CENTERLINE OF HWY. 65, 411 FEET SOUTHEAST OF A FIELD ENTRANCE AND 1.50 FEET WEST OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090004	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	491,688.0002	
<b>Easting (M)</b>	460,210.6960	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,613,146.3807	
<b>Easting (SFT)</b>	1,509,874.5918	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	45.5100587
<b>Scale Factor</b>	0.999963042		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	155	44.90	147.3
<b>MK # 2</b>	NBC IN POWER POLE	334	19.97	65.5
<b>MK # 3</b>	NBC IN COMBINATION POLE	254	50.99	167.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	OLD PN: 91090004 SEE JOB R20089 IN FILE.

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 29.8110552
<b>Longitude</b>	91 21 7.4436624
<b>Ellipsoid Height (M):</b>	13.092
<b>Geoid Height (M):</b>	-26.742

Location Description
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 476 FEET NORTH OF A FEDERAL AID SECONDARY (FAS) ROAD, 49.0 FEET WEST OF THE CENTERLINE OF HWY. 65 IN THE SOUTHEAST CORNER OF A LAWN IN FRONT OF A BRICK HOME, 90.0 FEET SOUTHWEST OF DRIVEWAY AND 2.60 FEET EAST OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090005	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095,020535,020629
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	497,790.5939	0.0020			
<b>Easting (M)</b>	457,304.4331	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,633,167.9735				
<b>Easting (SFT)</b>	1,500,339.6276				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	20	43.2945433
<b>Scale Factor</b>	0.999954447		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>	NAD 83 (1986)			
<b>Latitude</b>	33	32	48.4832868	
<b>Longitude</b>	91	22	58.5946380	
<b>Ellipsoid Height:</b>	15.456			
<b>Grid Northing (Meters)</b>	497,790.8752			
<b>Grid Easting (Meters)</b>	457,304.6780			

  

Location Description				
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 0.30 MILES SOUTH OF THE JCT. OF HWY. 65 AND HWY. 165 IN THE REST AREA LAWN, 155 FEET WEST OF THE NORTH ENTRANCE, 173.55 FEET WEST OF THE CENTERLINE OF HWY. 65 AND 1.50 FEET SOUTH OF A WITNESS POST.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	46	40.42	132.6
<b>MK # 2</b>	NBC IN POWER POLE	89	73.87	242.3
<b>MK # 3</b>	NBC IN TELEPHONE POLE	106	51.12	167.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	<b>Comments</b> Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090006	<b>Date Monumented</b> 6/17/1991	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20095,020535.020629
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	497,606.0825	0.0020	
<b>Easting (M)</b>	457,115.9616	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,632,562.6223		
<b>Easting (SFT)</b>	1,499,721.2840		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	20	39.1814548
<b>Scale Factor</b>	0.999954691		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	32	42.5334732
<b>Longitude</b>	91	23	5.9436528
<b>Ellipsoid Height:</b>	15.503		
<b>Grid Northing (Meters)</b>	497,606.4352		
<b>Grid Easting (Meters)</b>	457,116.2020		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TRIPLE RED OAK	104	25.15	82.5
MK # 2	NBC IN PERSIMMON	31	40.33	132.3
MK # 3	NBC IN TRIPLE PECAN	20	57.64	189.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> HEE HAW <b>Ref Mon # 3</b> NONE	OLD PN: 91090006 SEE JOB R20089 IN FILE. Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	33 32 42.5220720
<b>Longitude</b>	91 23 5.9530560
<b>Ellipsoid Height (M):</b>	15.811 0.0060
<b>Geoid Height (M):</b>	-26.211

Location Description
FROM THE JCT. OF HWY. 65 AND HWY. 165 SOUTH OF McGEHEE, GO SOUTH ON HWY. 165 0.40 MILES TO THE REST AREA ENTRANCE. THE STATION IS 316 FEET EAST OF THE CENTERLINE OF HWY. 165 ON THE SOUTH SIDE OF THE DRIVE AND 1.2 FEET NORTH OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090007	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20097,020612
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	474,010.1211	
<b>Easting (M)</b>	465,894.4590	
<b>Elevation (M)*</b>	36.426	
<b>Northing (SFT)</b>	1,555,148.2056	
<b>Easting (SFT)</b>	1,528,522.0709	
<b>Elevation (SFT)*</b>	119.507	

  

<b>Convergence Angle</b>	0	23	46.0936537
<b>Scale Factor</b>	0.999993088		
<b>Elevation Adjust. Factor</b>	0.9999942836		
<b>Combined Adjust. Factor</b>	0.9999873717		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.40 METERS WEST OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> WINN RMA 1965</p> <p><b>Ref Mon # 2</b> 82 V 10 W</p> <p><b>Ref Mon # 3</b> LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090007A	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20097
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	474,649.2241	
<b>Easting (M)</b>	465,879.8010	
<b>Elevation (M)*</b>	36.501	
<b>Northing (SFT)</b>	1,557,244.9961	
<b>Easting (SFT)</b>	1,528,473.9804	
<b>Elevation (SFT)*</b>	119.754	

  

<b>Convergence Angle</b>	0	23	45.8720464
<b>Scale Factor</b>	0.999991870		
<b>Elevation Adjust. Factor</b>	0.9999942718		
<b>Combined Adjust. Factor</b>	0.9999861419		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE JUNCTION OF AIRPORT ROAD AND THE STATION ON THE LEFT. THE STATION IS 22.65 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 65, 10.69 METERS SOUTH OF THE CENTER OF AIRPORT ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	232	2.56	8.4
<b>MK # 2</b>	GUY POLE	283	14.91	48.9
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> WINN RMA 1965 <b>Ref Mon # 2</b> 82 V 10 W <b>Ref Mon # 3</b> LAKE	<p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090008	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20097
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	468,711.4180	
<b>Easting (M)</b>	468,874.8740	
<b>Elevation (M)*</b>	37.585	
<b>Northing (SFT)</b>	1,537,764.0439	
<b>Easting (SFT)</b>	1,538,300.3158	
<b>Elevation (SFT)*</b>	123.310	

  

<b>Convergence Angle</b>	0	24	49.7656237
<b>Scale Factor</b>	1.000003609		
<b>Elevation Adjust. Factor</b>	0.9999941017		
<b>Combined Adjust. Factor</b>	0.9999977107		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	308	24.05	78.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
<b>Ref Mon # 2</b> 82 V 10 W	
<b>Ref Mon # 3</b> LAKE	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 17 2.1273972
<b>Longitude</b>	91 15 38.2340304
<b>Ellipsoid Height (M):</b>	11.550
<b>Geoid Height (M):</b>	-26.016

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO NORTHWEST ON U.S. HIGHWAYS 65 AND 82 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAYS 82 AND 65, 7.65 METERS NORTHWEST OF A DIRT FIELD ENTRANCE AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090008A	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> R20097
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,166.9281	
<b>Easting (M)</b>	468,351.7920	
<b>Elevation (M)*</b>	37.298	
<b>Northing (SFT)</b>	1,539,258.4966	
<b>Easting (SFT)</b>	1,536,584.1709	
<b>Elevation (SFT)*</b>	122.369	

  

<b>Convergence Angle</b>	0	24	38.5223577
<b>Scale Factor</b>	1.000002673		
<b>Elevation Adjust. Factor</b>	0.9999941468		
<b>Combined Adjust. Factor</b>	0.9999968197		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	226	2.53	8.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
<b>Ref Mon # 2</b> 82 V 10 W	
<b>Ref Mon # 3</b> LAKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090009	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> R20098
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	467,355.9080	
<b>Easting (M)</b>	474,381.6610	
<b>Elevation (M)*</b>	36.741	
<b>Northing (SFT)</b>	1,533,316.8415	
<b>Easting (SFT)</b>	1,556,367.1661	
<b>Elevation (SFT)*</b>	120.540	

  

<b>Convergence Angle</b>	0	26	48.6442863
<b>Scale Factor</b>	1.000006486		
<b>Elevation Adjust. Factor</b>	0.9999942342		
<b>Combined Adjust. Factor</b>	1.0000007202		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.83 (3.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> WINN RMA 1965</p> <p><b>Ref Mon # 2</b> 82 V 10 W</p> <p><b>Ref Mon # 3</b> LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090009A	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> R20098
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	467,229.8311	
<b>Easting (M)</b>	473,825.9390	
<b>Elevation (M)*</b>	36.629	
<b>Northing (SFT)</b>	1,532,903.2042	
<b>Easting (SFT)</b>	1,554,543.9349	
<b>Elevation (SFT)*</b>	120.173	

  

<b>Convergence Angle</b>	0	26	36.6051220
<b>Scale Factor</b>	1.000006739		
<b>Elevation Adjust. Factor</b>	0.9999942518		
<b>Combined Adjust. Factor</b>	1.0000009907		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	247	17.67	58.0
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	330	8.34	27.4
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
<b>Ref Mon # 2</b> 82 V 10 W	
<b>Ref Mon # 3</b> LAKE	

  

<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level	
<b>Elevation Datum:</b> NAVD 88	
<b>Geoid Datum:</b>	
<b>Latitude</b> 33 16 12.8359488	
<b>Longitude</b> 91 12 27.3437748	
<b>Ellipsoid Height (M):</b> 10.543	
<b>Geoid Height (M):</b> -26.066	

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.26 KM (2.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.19 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 10.47 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090010	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> R20098
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,390.9420	
<b>Easting (M)</b>	477,489.6260	
<b>Elevation (M)*</b>	45.609	
<b>Northing (SFT)</b>	1,539,993.4489	
<b>Easting (SFT)</b>	1,566,563.8813	
<b>Elevation (SFT)*</b>	149.636	

  

<b>Convergence Angle</b>	0	27	56.2146667
<b>Scale Factor</b>	1.000002360		
<b>Elevation Adjust. Factor</b>	0.9999928425		
<b>Combined Adjust. Factor</b>	0.9999952025		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO NORTHERLY ON THE LEVEE FOR 0.21 KM (0.13 MI) TO THE JUNCTION OF A NATURAL GAS PIPELINE AND THE STATION ON THE LEFT. THE STATION IS 3.8 METERS WEST OF THE CENTER OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 1.08 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> WINN RMA 1965</p> <p><b>Ref Mon # 2</b> 82 V 10 W</p> <p><b>Ref Mon # 3</b> LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090010A	<b>Date Monumented</b> 12/17/1998	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> R20098
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	468,690.0030	
<b>Easting (M)</b>	477,692.4590	
<b>Elevation (M)*</b>	46.453	
<b>Northing (SFT)</b>	1,537,693.7848	
<b>Easting (SFT)</b>	1,567,229.3426	
<b>Elevation (SFT)*</b>	152.403	

  

<b>Convergence Angle</b>	0	28	0.4785211
<b>Scale Factor</b>	1.000003791		
<b>Elevation Adjust. Factor</b>	0.9999927101		
<b>Combined Adjust. Factor</b>	0.9999965011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO SOUTHERLY ON THE LEVEE FOR 0.40 KM (0.25 MI) TO THE HIGHEST POINT OF THE LEVEE AND THE STATION ON THE LEFT. THE STATION IS 5.00 METERS EAST OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> WINN RMA 1965</p> <p><b>Ref Mon # 2</b> 82 V 10 W</p> <p><b>Ref Mon # 3</b> LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090011	<b>Date Monumented</b> 7/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 160	<b>Job Number:</b> 002970
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,758.7348	
<b>Easting (M)</b>	452,688.9680	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,511,672.6158	
<b>Easting (SFT)</b>	1,485,197.0558	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	58.7225559
<b>Scale Factor</b>	1.000020396		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 16.57 KM (10.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> 82V 10W <b>Ref Mon # 3</b> STELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090011A	<b>Date Monumented</b> 7/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 160	<b>Job Number:</b> 002970
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,766.1122	
<b>Easting (M)</b>	452,194.1134	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,511,696.8198	
<b>Easting (SFT)</b>	1,483,573.5204	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	48.0287636
<b>Scale Factor</b>	1.000020373		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF CMP	268	22.90	75.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> LAKE <b>Ref Mon # 2</b> 82V 10W <b>Ref Mon # 3</b> STELL	

  

<b>Vertical Determined By:</b>		NONE	
<b>Elevation Datum:</b>		NONE	
<b>Geoid Datum:</b>			
<b>Latitude</b>	33	12	47.6740404
<b>Longitude</b>	91	26	24.5496984
<b>Ellipsoid Height (M):</b>	7.921		
<b>Geoid Height (M):</b>	-25.844		

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 17.06 KM (10.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 27.40 METERS EAST OF A GRAVEL DRIVEWAY, 8.20 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090012	<b>Date Monumented</b> 7/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 160	<b>Job Number:</b> 002970
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,687.1111	
<b>Easting (M)</b>	461,351.1196	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,511,437.6303	
<b>Easting (SFT)</b>	1,513,616.1316	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	5.9156441
<b>Scale Factor</b>	1.000020671		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 19.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160, 12.80 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 5.35 METERS SOUTH OF THE CENTER OF A DIRT ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    LAKE</p> <p>Ref Mon # 2    82V 10W</p> <p>Ref Mon # 3    STELL</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090012A	<b>Date Monumented</b> 7/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 160	<b>Job Number:</b> 002970
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,734.1544	
<b>Easting (M)</b>	460,566.1466	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,511,591.9716	
<b>Easting (SFT)</b>	1,511,040.7660	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	48.9577793
<b>Scale Factor</b>	1.000020555		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 8.76 KM (5.44 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	293	4.45	14.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> LAKE</p> <p><b>Ref Mon # 2</b> 82V 10W</p> <p><b>Ref Mon # 3</b> STELL</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090013	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020260,020321
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,583.0434	
<b>Easting (M)</b>	451,977.9122	
<b>Elevation (M)*</b>	35.913	
<b>Northing (SFT)</b>	1,543,904.5349	
<b>Easting (SFT)</b>	1,482,864.2003	
<b>Elevation (SFT)*</b>	117.826	

  

<b>Convergence Angle</b>	0	18	44.5129479
<b>Scale Factor</b>	0.999999614		
<b>Elevation Adjust. Factor</b>	0.9999943641		
<b>Combined Adjust. Factor</b>	0.9999939781		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	345	5.75	18.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="AHTD MON 1"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="82 V 10W"/>	<input style="width: 100%; height: 100%;" type="text" value="old elev = 34.871 meters. New for Job 020321 is listed."/>

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 18 6.3525420
<b>Longitude</b>	91 26 30.8314104
<b>Ellipsoid Height (M):</b>	9.960
<b>Geoid Height (M):</b>	-25.906

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 12.00 METERS SOUTH OF THE CENTER OF A DIRT ROAD, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.407 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090013A	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020260,020321
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,663.6132	
<b>Easting (M)</b>	452,586.0084	
<b>Elevation (M)*</b>	35.909	

  

<b>Northing (SFT)</b>	1,544,168.8710	
<b>Easting (SFT)</b>	1,484,859.2626	
<b>Elevation (SFT)*</b>	117.810	

  

<b>Convergence Angle</b>	0 18 57.6781153	
<b>Scale Factor</b>	0.999999460	
<b>Elevation Adjust. Factor</b>	0.9999943648	
<b>Combined Adjust. Factor</b>	0.9999938248	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: STELL	old elev = 34.867 meters. New for Job 020321 is listed.
Ref Mon # 2: AHTD MON 1	
Ref Mon # 3: 82 V 10W	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090014	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	471,252.4697	
<b>Easting (M)</b>	456,981.6620	
<b>Elevation (M)*</b>	36.090	
<b>Northing (SFT)</b>	1,546,100.8110	
<b>Easting (SFT)</b>	1,499,280.6694	
<b>Elevation (SFT)*</b>	118.404	

  

<b>Convergence Angle</b>	0	20	32.8503611
<b>Scale Factor</b>	0.999998341		
<b>Elevation Adjust. Factor</b>	0.9999943364		
<b>Combined Adjust. Factor</b>	0.9999926774		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF CMP	140	6.60	21.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="AHTD MON 1"/>	
<b>Ref Mon # 3</b> <input type="text" value="82 V 10W"/>	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 33 18 27.1528668

**Longitude** 91 23 17.2648284

**Ellipsoid Height (M):** 10.094

**Geoid Height (M):** -25.949

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 9.35 KM (5.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090014A	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	471,331.8485	
<b>Easting (M)</b>	457,552.2783	
<b>Elevation (M)*</b>	36.091	
<b>Northing (SFT)</b>	1,546,361.2396	
<b>Easting (SFT)</b>	1,501,152.7664	
<b>Elevation (SFT)*</b>	118.409	

  

<b>Convergence Angle</b>	0	20	45.2062373
<b>Scale Factor</b>	0.999998191		
<b>Elevation Adjust. Factor</b>	0.9999943361		
<b>Combined Adjust. Factor</b>	0.9999925271		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	103	23.20	76.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="AHTD MON 1"/>	
<b>Ref Mon # 3</b> <input type="text" value="82 V 10W"/>	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 33 18 29.6181036

**Longitude** 91 22 55.1885700

**Ellipsoid Height (M):** 10.095

**Geoid Height (M):** -25.954

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090015	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321,020612
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	472,003.0530	
<b>Easting (M)</b>	461,819.9724	
<b>Elevation (M)*</b>	36.647	
<b>Northing (SFT)</b>	1,548,563.3497	
<b>Easting (SFT)</b>	1,515,154.3594	
<b>Elevation (SFT)*</b>	120.233	

  

<b>Convergence Angle</b>	0	22	17.6341251
<b>Scale Factor</b>	0.999996922		
<b>Elevation Adjust. Factor</b>	0.9999942489		
<b>Combined Adjust. Factor</b>	0.9999911709		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 4.46 KM (2.77 MI) TO THE AHTD CHICOT COUNTY YARD AND THE STATION ON THE RIGHT. THE STATION IS 17.70 NORTH OF THE CENTER OF U.S. HIGHWAY 82, 5.00 METERS NORTHEAST OF THE NORTHEAST CORNER OF THE PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST OF CHAIN LINK FENCE	12	4.60	15.1
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	36	2.80	9.2
<b>MK # 3</b>	WATER METER	317	5.80	19.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    AHTD MON 1</p> <p><b>Ref Mon # 3</b>    82 V 10W</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090015A	<b>Date Monumented</b> 4/2/2001	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	471,871.2939		
<b>Easting (M)</b>	461,296.5101		
<b>Elevation (M)*</b>	36.422		
<b>Northing (SFT)</b>	1,548,131.0701		
<b>Easting (SFT)</b>	1,513,436.9669		
<b>Elevation (SFT)*</b>	119.493		

  

<b>Convergence Angle</b>	0	22	6.2896534
<b>Scale Factor</b>	0.999997174		
<b>Elevation Adjust. Factor</b>	0.9999942843		
<b>Combined Adjust. Factor</b>	0.9999914583		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 STELL	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 82 V 10W	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 18 46.3699584
<b>Longitude</b>	91 20 30.3167364
<b>Ellipsoid Height (M):</b>	10.377
<b>Geoid Height (M):</b>	-25.992

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 5.00 KM (3.11 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 6.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 539.796 METERS.</p>

<b>AZ Mark Station</b>	090015
<b>Geodetic Azimuth</b>	76 14 24.681068
<b>Grid Azimuth</b>	75 52 18.285261

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090016	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 159	<b>Job Number:</b> 020382
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	444,581.3860	
<b>Easting (M)</b>	467,012.6120	
<b>Elevation (M)*</b>	41.016	
<b>Northing (SFT)</b>	1,458,597.4306	
<b>Easting (SFT)</b>	1,532,190.5445	
<b>Elevation (SFT)*</b>	134.565	

  

<b>Convergence Angle</b>	0	24	5.8277137
<b>Scale Factor</b>	1.000059972		
<b>Elevation Adjust. Factor</b>	0.9999935634		
<b>Combined Adjust. Factor</b>	1.0000535350		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 159 AND STATE HIGHWAY 52 LOCATED ABOUT 3.54 MILES NORTH OF THE ARKANSAS / LOUISIANA STATE LINE GO NORTH ON STATE HIGHWAY 159 FOR 1.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 159 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "090016 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	233	9.40	30.8
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD MON 1 &amp; 480016</p> <p><b>Ref Mon # 2</b>    VICKSBURG CORS</p> <p><b>Ref Mon # 3</b>    WINNFIELD CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090016A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 159	<b>Job Number:</b> 020382
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	444,087.7889	
<b>Easting (M)</b>	466,826.4210	
<b>Elevation (M)*</b>	40.041	
<b>Northing (SFT)</b>	1,456,978.0207	
<b>Easting (SFT)</b>	1,531,579.6829	
<b>Elevation (SFT)*</b>	131.366	

  

<b>Convergence Angle</b>	0	24	1.7362510
<b>Scale Factor</b>	1.000061270		
<b>Elevation Adjust. Factor</b>	0.9999937164		
<b>Combined Adjust. Factor</b>	1.0000549860		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 159 AND STATE HIGHWAY 52 LOCATED ABOUT 3.54 MILES NORTH OF THE ARKANSAS / LOUISIANA STATE LINE GO NORTH ON STATE HIGHWAY 159 FOR 0.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 159 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "090016A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	306	19.00	62.3	090016
MK # 2					21 04 04
MK # 3					20 40 02

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1 & 480016	3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON
Ref Mon # 2 VICKSBURG CORS	
Ref Mon # 3 WINNFIELD CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090017	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321, 020675
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	470,584.4485	0.0020
<b>Easting (M)</b>	451,967.9011	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,543,909.1448	
<b>Easting (SFT)</b>	1,482,831.3555	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	44.2965329
<b>Scale Factor</b>	0.999999612		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	18	6.4001340
<b>Longitude</b>	91	26	31.2179676
<b>Ellipsoid Height:</b>	10.309		
<b>Grid Northing (Meters)</b>	470,584.4551		
<b>Grid Easting (Meters)</b>	451,967.9040		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	65	9.70	31.8
MK # 2	UNDERGROUND CABLE MARKER	291	25.80	84.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	<b>Comments</b> SUPERCEDED GEOID HT. IS -25.906m SUPERCEDED REF. MONUMENTS ARE GPS POINTS 020014, 090014, 090015, 020014A AND MARKS 82 V 10W & CSAL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
---	--

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 18 6.3999180
<b>Longitude</b>	91 26 31.2180792
<b>Ellipsoid Height (M):</b>	10.056 0.0190
<b>Geoid Height (M):</b>	-25.995 0.0190

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 11.60 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	090017A
<b>Geodetic Azimuth</b>	82 21 08
<b>Grid Azimuth</b>	82 02 24

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090017A	<b>Date Monumented</b> 3/22/2005	<b>Monumented By</b> AHTD	<b>County</b> CHICOT	<b>Route</b> 82	<b>Job Number:</b> 020321
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,672.4021	
<b>Easting (M)</b>	452,596.8570	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,544,197.7059	
<b>Easting (SFT)</b>	1,484,894.8550	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	57.9138651
<b>Scale Factor</b>	0.999999443		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	020014, 090014, 090015
<b>Ref Mon # 2</b>	090014A, 020014A
<b>Ref Mon # 3</b>	82 V 10W

  

Comments

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 13.73 KM (8.53 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.4 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090018	<b>Date Monumented</b> 2/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 65	<b>Job Number:</b> R20089
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	474,649.2381	
<b>Easting (M)</b>	465,879.6750	
<b>Elevation (M)*</b>	36.366	
<b>Northing (SFT)</b>	1,557,245.0420	
<b>Easting (SFT)</b>	1,528,473.5671	
<b>Elevation (SFT)*</b>	119.312	

  

<b>Convergence Angle</b>	0	23	45.8693223
<b>Scale Factor</b>	0.999991870		
<b>Elevation Adjust. Factor</b>	0.9999942930		
<b>Combined Adjust. Factor</b>	0.9999861630		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone box	232	2.50	8.2
<b>MK # 2</b>	Guy pole	283	14.91	48.9
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 82V 10 W	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
<b>Ref Mon # 2</b> Lake	
<b>Ref Mon # 3</b> 090007, 090008, 090009, 090010	

  

Location Description	
To reach the station from the junction of highways 65,82 and 144 in Lake Village, go northeasterly on Hwy-65 for 0.45 miles to the station on the left. 74.30 feet west of the center of Hwy-65, 35.07 feet south of the center of the airport road and 1.65 fe	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 20 15.5443740
<b>Longitude</b>	91 17 32.3976264
<b>Ellipsoid Height (M):</b>	10.295
<b>Geoid Height (M):</b>	-26.085

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090019	<b>Date Monumented</b> 2/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 65	<b>Job Number:</b> R20089
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	469,193.4130		
<b>Easting (M)</b>	468,365.4560		
<b>Elevation (M)*</b>	36.539		
<b>Northing (SFT)</b>	1,539,345.3892		
<b>Easting (SFT)</b>	1,536,629.0002		
<b>Elevation (SFT)*</b>	119.878		

  

<b>Convergence Angle</b>	0	24	38.8220217
<b>Scale Factor</b>	1.000002619		
<b>Elevation Adjust. Factor</b>	0.9999942659		
<b>Combined Adjust. Factor</b>	0.9999968849		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 65 and 82 in Fairview just south of Lake Village, go northwest on Hwy-65 for 1.03 miles to the station on the right. 40.38 feet northeast of the center of Hwy-65 and 1.65 feet southwest of a witness post</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Combination pole	336	15.84	52.0	090008
MK # 2					133 49 35
MK # 3					133 24 56

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090020	<b>Date Monumented</b> 2/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 82	<b>Job Number:</b> R20089
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	468,688.6861	
<b>Easting (M)</b>	477,683.0720	
<b>Elevation (M)*</b>	46.095	
<b>Northing (SFT)</b>	1,537,689.4643	
<b>Easting (SFT)</b>	1,567,198.5454	
<b>Elevation (SFT)*</b>	151.230	

  

<b>Convergence Angle</b>	0	28	0.2752594
<b>Scale Factor</b>	1.000003793		
<b>Elevation Adjust. Factor</b>	0.9999927662		
<b>Combined Adjust. Factor</b>	0.9999965592		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of Hwy-82 and the Mississippi river levee south of Lake Village and near the Greenville bridge, go south on the levee for 0.25 miles to the highest point of the levee and the station on the right 14 feet west of the</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    82V 10 W, Lake</p> <p><b>Ref Mon # 2</b>    090007, 090008, 090009</p> <p><b>Ref Mon # 3</b>    090009A, 090010</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090021	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 65	<b>Job Number:</b> 020535
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>		
<b>Northing (M)</b>	491,294.8700	
<b>Easting (M)</b>	460,456.9719	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,611,856.5860	
<b>Easting (SFT)</b>	1,510,682.5820	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	50.7955886
<b>Scale Factor</b>	0.999963628		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	opower pole	65	7.62	25.0
MK # 2	intersections of two farm roads	125	7.31	24.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090022	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 165	<b>Job Number:</b> 020535
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>			
<b>Northing (M)</b>	493,281.1114		
<b>Easting (M)</b>	452,520.8562		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,618,373.1130		
<b>Easting (SFT)</b>	1,484,645.5090		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	18	58.9705477
<b>Scale Factor</b>	0.999960651		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	nearest rail	280	18.59	61.0
MK # 2	cmp	190	10.36	34.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>			
<b>Elevation Datum:</b>			
<b>Geoid Datum:</b>			
<b>Latitude</b>	33	30	23.0000000
<b>Longitude</b>	91	26	4.9999999
<b>Ellipsoid Height (M):</b>			
<b>Geoid Height (M):</b>			

Location Description
This station is set in the north west corner of the intersection of highway 208 and 165. The station is a standard alum. cap stamped(090022 2011) and is set on a 4 foot 5/8" rebar. It is 44' west of the center line of highway 165 and 29' north of a witness post. Lat.33.3023 Lon.091.2605

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090022A	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 165	<b>Job Number:</b> 020535
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	
<b>Northing (M)</b>	492,787.7622
<b>Easting (M)</b>	452,446.1485
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	1,616,754.5165
<b>Easting (SFT)</b>	1,484,400.4055
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	18	57.2914756
<b>Scale Factor</b>	0.999961363		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of ditch	west	5.79	19.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 30 6.99999998
<b>Longitude</b>	91 26 8.00000002
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	

Location Description
Starting at the intersection of highway 208 and 165 go south on 165 for 0.3 miles to the station on the left. The station is a standard alum. cap stamped(090022A 2011) and is set on a 4 foot 5/8" rebar. It is 24' east of the center line of 165 and is 2' west of a witness post. Lat.33.3007 Lon.091.2608

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090023	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 144	<b>Job Number:</b> 020043
--------------------------	------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,420.9481	
<b>Easting (M)</b>	471,813.0047	
<b>Elevation (M)*</b>	37.193	
<b>Northing (SFT)</b>	1,572,900.2272	
<b>Easting (SFT)</b>	1,547,939.8329	
<b>Elevation (SFT)*</b>	122.025	

  

<b>Convergence Angle</b>	0	25	55.0615157
<b>Scale Factor</b>	0.999983173		
<b>Elevation Adjust. Factor</b>	0.9999941632		
<b>Combined Adjust. Factor</b>	0.9999773363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	East of 18"cmp	245	22.25	73.0
<b>MK # 2</b>	north of center line of highway 144	160	10.67	35.0
<b>MK # 3</b>	north west of combo pole	110	32.92	108.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090023A	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Chicot	<b>Route</b> 144	<b>Job Number:</b> 020043
---------------------------	------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,479.4434	
<b>Easting (M)</b>	472,317.5167	
<b>Elevation (M)*</b>	36.542	

  

<b>Northing (SFT)</b>	1,573,092.1406	
<b>Easting (SFT)</b>	1,549,595.0527	
<b>Elevation (SFT)*</b>	119.890	

  

<b>Convergence Angle</b>	0	26	5.9955772
<b>Scale Factor</b>	0.999983075		
<b>Elevation Adjust. Factor</b>	0.9999942653		
<b>Combined Adjust. Factor</b>	0.9999773404		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

Starting at the junction of highway 144 and 257 go east for 2.2 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.33.2251 LON.91.1322

  

**Location Reference Marks**

	Description	Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	North east of 18" cmp	218	1.83	6.0	
<b>MK # 2</b>	north of the center line of highway 144	182	10.06	33.0	
<b>MK # 3</b>	east of telephone box	275	20.73	68.0	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090024	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 35	<b>Job Number:</b> 020629
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	497,948.2760	
<b>Easting (M)</b>	470,720.7671	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,633,685.3022	
<b>Easting (SFT)</b>	1,544,356.3834	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	25	34.3951657
<b>Scale Factor</b>	0.999954358		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 6.25 MILES TO THE STATION MARK ON THE LEFT, WEST 20' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "090024 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	313	30.17	99.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARP Ref Mon # 2    ARMO Ref Mon # 3    MSGN	<b>Comments</b>  Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090024A	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 35	<b>Job Number:</b> 020629
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	498,375.6339		
<b>Easting (M)</b>	470,477.7327		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,635,087.3922		
<b>Easting (SFT)</b>	1,543,559.0280		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	29.1910967
<b>Scale Factor</b>	0.999953790		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	67	20.42	67.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    33    4.5898920
<b>Longitude</b>	91    14    27.7924920
<b>Ellipsoid Height (M):</b>	15.954
<b>Geoid Height (M):</b>	-26.448

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, WEST 21.7' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "090024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090025	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,282.5489	0.0020	
<b>Easting (M)</b>	450,381.1229	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,542,918.6625		
<b>Easting (SFT)</b>	1,477,625.4007		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	18	9.9336073
<b>Scale Factor</b>	1.000000198		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	240	17.68	58.0	
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARMO Ref Mon # 3    IULM, MSGN	<b>Comments</b> STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
---	---

  

**Location Description**

090025 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO EAST ON US-82 2.0 MILES TO RUDY MCGEHEE RD. GO SOUTH ON RUDY MCGEHEE RD 0.05 MILES TO STATION ON LEFT. 22' EAST OF C/L RUDY MCGEHEE RD. 35' NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "090025 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	090025A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090025A	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	469,860.6795	0.0020
<b>Easting (M)</b>	450,373.4053	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,541,534.5793	
<b>Easting (SFT)</b>	1,477,600.0806	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	9.7184335
<b>Scale Factor</b>	1.000001044		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	36" CUS	210	14.00	45.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM, MSGN	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 17 43.1853468
<b>Longitude</b>	91 27 32.9988096
<b>Ellipsoid Height (M):</b>	9.654 0.0190
<b>Geoid Height (M):</b>	-25.979 0.0190

Location Description
<p>090025A TO REACH THE STATION MARK FROM THE JCT OF US-82 &amp; US-165 IN MONTROSE, GO EAST ON US-82 2.0 MILES TO RUDY MCGEHEE RD. GO SOUTH ON RUDY MCGEHEE RD 0.3 MILES TO STATION ON LEFT. 26' EAST OF C/L RUDY MCGEHEE RD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "090025A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090026	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,672.3275	0.0020	
<b>Easting (M)</b>	452,596.9060	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,544,197.4611		
<b>Easting (SFT)</b>	1,484,895.0158		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	18	57.9149169
<b>Scale Factor</b>	0.999999443		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
090026 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO WEST ON US-82 1.6 MILES TO STATION ON RIGHT. 60' EAST OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "090026 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						090017
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090027	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> SR-293	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	471,680.6470	0.0020	
<b>Easting (M)</b>	455,131.8770	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,547,505.5894		
<b>Easting (SFT)</b>	1,493,211.8331		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	19	52.8830549
<b>Scale Factor</b>	0.999997475		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	160	13.11	43.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090027A	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> SR-293	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	471,183.8970	0.0020	
<b>Easting (M)</b>	455,146.4846	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,545,875.8354		
<b>Easting (SFT)</b>	1,493,259.7582		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	19	53.1369387
<b>Scale Factor</b>	0.999998456		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	0	29.26	96.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM, MSGN	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33   18   25.2774180
<b>Longitude</b>	91   24   28.2208464
<b>Ellipsoid Height (M):</b>	9.442   0.0180
<b>Geoid Height (M):</b>	-26.026   0.0180

Location Description
<p>090027A TO REACH THE STATION MARK FROM THE JCT OF US-82 &amp; SR-293 WEST OF LAKE VILLAGE, GO NORTH ON SR-293 0.1 MILES TO STATION ON RIGHT. 39' EAST OF C/L SR-293. 38' WEST OF A LEVEE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090027A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090028	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	472,176.7282	0.0020	
<b>Easting (M)</b>	463,606.3289	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,549,133.1491		
<b>Easting (SFT)</b>	1,521,015.0974		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	56.3104855
<b>Scale Factor</b>	0.999996605		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	290	2.13	7.0
MK # 2	WELL HEAD	350	4.26	14.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 18 55.7926128
<b>Longitude</b>	91 19 0.9444576
<b>Ellipsoid Height (M):</b>	11.286 0.0180
<b>Geoid Height (M):</b>	-26.118 0.0180

  

Location Description
090028 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.4 MILES TO STATION ON LEFT. 26' EAST OF C/L REGINELLI ROAD. 22' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090028 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090028A	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	472,648.6973	0.0020	
<b>Easting (M)</b>	463,679.1986	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,550,681.6011		
<b>Easting (SFT)</b>	1,521,254.1707		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	57.9554126
<b>Scale Factor</b>	0.999995685		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM, MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    19    11.0960508
<b>Longitude</b>	91    18    58.0054644
<b>Ellipsoid Height (M):</b>	10.709    0.0180
<b>Geoid Height (M):</b>	-26.127    0.0180

  

Location Description
090028A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.1 MILES TO STATION ON LEFT. 11' EAST OF C/L REGINELLI ROAD. AT THE EDGE OF A CULTIVATED FIELD. THE MARK IS A STANDARD 2½" CAP STAMPED "090028A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090029	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-65	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	474,109.3332	0.0020	
<b>Easting (M)</b>	465,935.2121	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,555,473.7040		
<b>Easting (SFT)</b>	1,528,655.7750		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	46.9904615
<b>Scale Factor</b>	0.999992899		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090029A	<b>Date Monumented</b> 1/26/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-65	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	474,634.5741	0.0020	
<b>Easting (M)</b>	465,891.4752	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,557,196.9319		
<b>Easting (SFT)</b>	1,528,512.2816		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	46.1225169
<b>Scale Factor</b>	0.999991898		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	330	19.20	63.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM, MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    20    15.0657612
<b>Longitude</b>	91    17    31.9452432
<b>Ellipsoid Height (M):</b>	10.184    0.0170
<b>Geoid Height (M):</b>	-26.186    0.0170

  

Location Description
090029A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO NORTH ON US-65 0.5 MILES TO STATION ON LEFT. 37' WEST OF C/L SOUTHBOUND US-65. 84' SOUTH OF AIRPORT ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090029A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090030	<b>Date Monumented</b> 1/27/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,811.6421	0.0020	
<b>Easting (M)</b>	458,427.0637	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,544,654.5291		
<b>Easting (SFT)</b>	1,504,022.7915		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	21	4.0637271
<b>Scale Factor</b>	0.999999233		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM, MSGN	

  

<b>Vertical Determined By:</b>	Level - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 18		
<b>Latitude</b>	33	18	12.5604180
<b>Longitude</b>	91	22	21.4958712
<b>Ellipsoid Height (M):</b>	9.443	0.0190	
<b>Geoid Height (M):</b>	-26.050	0.0190	

  

Location Description
<p>090030 TO REACH THE STATION MARK FROM THE JCT OF US-82 &amp; SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.4 MILES TO STATION ON RIGHT. 23' WEST OF C/L BILL YOUNG ROAD. 24' NORTH OF A DIRT FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090030A	<b>Date Monumented</b> 1/27/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	471,290.2923	0.0020	
<b>Easting (M)</b>	458,421.3793	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,546,224.9007		
<b>Easting (SFT)</b>	1,504,004.1419		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	21	4.0042073
<b>Scale Factor</b>	0.999998284		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
090030A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.1 MILES TO STATION ON RIGHT. 19' WEST OF C/L BILL YOUNG ROAD. 45' NORTH OF A GRAVEL DRIVE. 76' OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090031	<b>Date Monumented</b> 1/27/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
--------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	471,598.1547	0.0020	
<b>Easting (M)</b>	462,393.7910	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,547,234.9459		
<b>Easting (SFT)</b>	1,517,036.9626		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	29.9924736
<b>Scale Factor</b>	0.999997726		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
090031 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 4.2 MILES TO DOC SEALE ROAD. GO SOUTH ON DOC SEALE ROAD 0.4 MILES TO STATION ON RIGHT. 43' SOUTHWEST OF C/L DOC SEALE ROAD. 23' EAST OF A FIELD ROAD. 101' SOUTH OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090031 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						090031A
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090031A	<b>Date Monumented</b> 1/27/2021	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> US-82	<b>Job Number:</b> 020675
---------------------------	-------------------------------------	-------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	471,935.0206	0.0020			
<b>Easting (M)</b>	461,990.5228	0.0020			
<b>Elevation (M)*</b>					

  

<b>Northing (SFT)</b>	1,548,340.1468	
<b>Easting (SFT)</b>	1,515,713.9069	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	21.3147444
<b>Scale Factor</b>	0.999997058		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	090031
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 0-9-8-91	<b>Date Monumented</b> 1/1/1991	<b>Monumented By</b> MY CORPS OF	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100308
----------------------------	------------------------------------	-------------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,999.2310	
<b>Easting (M)</b>	551,305.8760	
<b>Elevation (M)*</b>	72.419	
<b>Northing (SFT)</b>	570,862.4770	
<b>Easting (SFT)</b>	1,808,742.6948	
<b>Elevation (SFT)*</b>	237.595	

  

<b>Convergence Angle</b>	0	58	30.8767957
<b>Scale Factor</b>	0.999950140		
<b>Elevation Adjust. Factor</b>	0.9999886352		
<b>Combined Adjust. Factor</b>	0.9999387758		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	320	6.00	19.7
<b>MK # 2</b>	AHTD BENCH MARK	10	0.40	1.3
<b>MK # 3</b>	WEST END GUARD RAIL	280	23.33	76.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> VILLPORT <b>Ref Mon # 3</b> MANIPORT	<b>Comments</b> Elevation based on levels by consultant for Job# 100567
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 10 DWB 1967	<b>Date Monumented</b> 9/13/1995	<b>Monumented By</b> USC&GS	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040226
-------------------------------	-------------------------------------	--------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	129,909.3420	
<b>Easting (M)</b>	186,218.2140	
<b>Elevation (M)*</b>	170.011	
<b>Northing (SFT)</b>	426,210.8995	
<b>Easting (SFT)</b>	610,950.9238	
<b>Elevation (SFT)*</b>	557.778	

  

<b>Convergence Angle</b>	-1	22	15.6072953
<b>Scale Factor</b>	0.999937543		
<b>Elevation Adjust. Factor</b>	0.9999733204		
<b>Combined Adjust. Factor</b>	0.9999108651		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 2.06 KM (1.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 58.0 METERS NORTH NORTHWEST OF OLD UNION TOWN ROAD, 12.96 METERS WEST OF THE CENTER OF HWY. 59 AND 1.5 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "10 DWB 1967 558". THE STATION IS A USC&amp;GS BENCH MARK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER OF ROCK BUILDING	240	12.65	41.5
<b>MK # 2</b>	COMINATION POLE	25	1.70	5.6
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 92170001 <b>Ref Mon # 2</b> FORT SMITH GIS NO. 103 <b>Ref Mon # 3</b> GRASSY OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 10 DWB AZ	<b>Date Monumented</b> 9/13/1995	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040226
-----------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	129,583.3581	
<b>Easting (M)</b>	186,227.4820	
<b>Elevation (M)*</b>	186.203	
<b>Northing (SFT)</b>	425,141.4007	
<b>Easting (SFT)</b>	610,981.3305	
<b>Elevation (SFT)*</b>	610.901	

  

<b>Convergence Angle</b>	-1	22	15.2133675
<b>Scale Factor</b>	0.999937636		
<b>Elevation Adjust. Factor</b>	0.9999707795		
<b>Combined Adjust. Factor</b>	0.9999084174		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4" STEEL GATE POST	160	12.29	40.3
<b>MK # 2</b>	12" PINE TREE	30	22.90	75.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 92170001	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "10 DWB 1967".
<b>Ref Mon # 2</b> FORT SMITH GIS NO. 103	
<b>Ref Mon # 3</b> GRASSY OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100001	<b>Date Monumented</b> 8/1/1994	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070063
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	576,676.0259	
<b>Easting (M)</b>	268,562.6780	
<b>Elevation (M)*</b>	175.043	
<b>Northing (SFT)</b>	1,891,977.9283	
<b>Easting (SFT)</b>	881,109.3861	
<b>Elevation (SFT)*</b>	574.287	

  

<b>Convergence Angle</b>	0	47	55.4138205
<b>Scale Factor</b>	0.999925610		
<b>Elevation Adjust. Factor</b>	0.9999725308		
<b>Combined Adjust. Factor</b>	0.9998981428		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	196	18.20	59.7
<b>MK # 2</b>	24" METAL PIPE WITH HEADWALL	114	35.00	114.8
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARKAPORT	
<b>Ref Mon # 2</b> PLEASANT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    15    4.8073824
<b>Longitude</b>	93    25    37.5052116
<b>Ellipsoid Height (M):</b>	147.097
<b>Geoid Height (M):</b>	-27.946

Location Description
<p>FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.541 KM (2.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 1.15 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "100001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100001A	<b>Date Monumented</b> 8/1/1994	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070063
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	576,766.7769	
<b>Easting (M)</b>	268,335.8200	
<b>Elevation (M)*</b>	177.101	
<b>Northing (SFT)</b>	1,892,275.6672	
<b>Easting (SFT)</b>	880,365.1028	
<b>Elevation (SFT)*</b>	581.039	

  

<b>Convergence Angle</b>	0	48	0.4037997
<b>Scale Factor</b>	0.999925662		
<b>Elevation Adjust. Factor</b>	0.9999722079		
<b>Combined Adjust. Factor</b>	0.9998978719		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" PINE TREE	195	23.60	77.4
<b>MK # 2</b>	POWER POLE	285	7.05	23.1
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	290	8.60	28.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARKAPORT	
<b>Ref Mon # 2</b> PLEASANT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    15    7.6498020
<b>Longitude</b>	93    25    46.4208132
<b>Ellipsoid Height (M):</b>	149.151
<b>Geoid Height (M):</b>	-27.950

Location Description
<p>FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.299 KM (2.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.10 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100003	<b>Date Monumented</b> 9/29/1997	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070064
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,879.7250	
<b>Easting (M)</b>	277,988.6380	
<b>Elevation (M)*</b>	174.930	
<b>Northing (SFT)</b>	1,876,242.0644	
<b>Easting (SFT)</b>	912,034.3898	
<b>Elevation (SFT)*</b>	573.916	

  

<b>Convergence Angle</b>	0	44	27.8718196
<b>Scale Factor</b>	0.999923107		
<b>Elevation Adjust. Factor</b>	0.9999725485		
<b>Combined Adjust. Factor</b>	0.9998956576		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO WEST ON STATE HIGHWAY 8 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.406 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.71 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	75	0.82	2.7
<b>MK # 2</b>	CONCRETE R/W MARKER	254	23.21	76.1
<b>MK # 3</b>	NBC IN 0.26 METER GUM TREE	294	28.45	93.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FRANKLIN 2</p> <p><b>Ref Mon # 2</b>    C 59</p> <p><b>Ref Mon # 3</b>    100002</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100003A	<b>Date Monumented</b> 9/29/1929	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070064
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,477.5190	
<b>Easting (M)</b>	278,213.2480	
<b>Elevation (M)*</b>	161.910	
<b>Northing (SFT)</b>	1,874,922.4936	
<b>Easting (SFT)</b>	912,771.2978	
<b>Elevation (SFT)*</b>	531.200	

  

<b>Convergence Angle</b>	0	44	22.8475652
<b>Scale Factor</b>	0.999922918		
<b>Elevation Adjust. Factor</b>	0.9999745917		
<b>Combined Adjust. Factor</b>	0.9998975116		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STTION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO WEST ON STATE HIGHWAY 8 FOR 4.02 KM (2.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.804 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.62 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 0.25 METER PINE	203	25.13	82.4
<b>MK # 2</b>	NBC IN 0.25 METER WHITE OAK	245	27.92	91.6
<b>MK # 3</b>	NBC IN 0.28 METER RED OAK	265	35.48	116.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FRANKLIN 2</p> <p><b>Ref Mon # 2</b>    C 59</p> <p><b>Ref Mon # 3</b>    100002</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 wire run on 12/16/97 by S5113</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100004	<b>Date Monumented</b> 9/29/1997	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070064
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	568,535.2209	
<b>Easting (M)</b>	281,814.9060	
<b>Elevation (M)*</b>	168.456	
<b>Northing (SFT)</b>	1,865,269.3039	
<b>Easting (SFT)</b>	924,587.7374	
<b>Elevation (SFT)*</b>	552.676	

  

<b>Convergence Angle</b>	0	43	3.3005847
<b>Scale Factor</b>	0.999921664		
<b>Elevation Adjust. Factor</b>	0.9999735645		
<b>Combined Adjust. Factor</b>	0.9998952305		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.938 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 53, 11.833 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD (CALDWELL ROAD) AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W NAIL	294	4.94	16.2
<b>MK # 2</b>	SOUTH GATE POST (STEEL)	79	63.94	209.8
<b>MK # 3</b>	NORTH GATE POST (STEEL)	217	75.30	247.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FRANKLIN 2</p> <p><b>Ref Mon # 2</b>    C 59</p> <p><b>Ref Mon # 3</b>    100002</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 wire run on 12/16/97 by S5113</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100004A	<b>Date Monumented</b> 9/29/1997	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070064
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	568,911.4929	
<b>Easting (M)</b>	281,690.8000	
<b>Elevation (M)*</b>	145.507	
<b>Northing (SFT)</b>	1,866,503.7896	
<b>Easting (SFT)</b>	924,180.5663	
<b>Elevation (SFT)*</b>	477.384	

  

<b>Convergence Angle</b>	0	43	6.1161346
<b>Scale Factor</b>	0.999921815		
<b>Elevation Adjust. Factor</b>	0.9999771657		
<b>Combined Adjust. Factor</b>	0.9998989825		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 53 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FRANKLIN 2</p> <p><b>Ref Mon # 2</b>    C 59</p> <p><b>Ref Mon # 3</b>    100002</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 wire run on 12/16/97 by S5113</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100005A (P.1)	<b>Date Monumented</b> 4/26/2000	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 30	<b>Job Number:</b> 070442
---------------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	561,179.5285 0.0020
<b>Easting (M)</b>	299,064.3100 0.0020
<b>Elevation (M)*</b>	94.572
<b>Northing (SFT)</b>	1,841,136.5031
<b>Easting (SFT)</b>	981,180.1571
<b>Elevation (SFT)*</b>	310.274

  

<b>Convergence Angle</b>	0 36 44.5743489
<b>Scale Factor</b>	0.999919455
<b>Elevation Adjust. Factor</b>	0.9999851588
<b>Combined Adjust. Factor</b>	0.9999046150

  

SUPERCEDDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST-NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARGS <b>Ref Mon # 3</b> ARHP, ARLR	<b>Comments</b>  *****NOTE: SEE 100005A (P.2) FOR SUPERCEDDED POSITION***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100005A (P.2)	<b>Date Monumented</b> 4/26/2000	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 30	<b>Job Number:</b> 070240,070363,070364
---------------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	561,179.5361
<b>Easting (M)</b>	299,064.2913
<b>Elevation (M)*</b>	94.578
<b>Northing (SFT)</b>	1,841,136.5280
<b>Easting (SFT)</b>	981,180.0957
<b>Elevation (SFT)*</b>	310.296

  

<b>Convergence Angle</b>	0	36	44.5747579
<b>Scale Factor</b>	0.999919455		
<b>Elevation Adjust. Factor</b>	0.9999851578		
<b>Combined Adjust. Factor</b>	0.9999046140		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	34	6	54.0710784
<b>Longitude</b>	93	5	38.9157468
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	561,179.5470		
<b>Grid Easting (Meters)</b>	299,064.3051		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST-NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    AHTD HOPE 1</p> <p><b>Ref Mon # 2</b>    300001</p> <p><b>Ref Mon # 3</b>    200007</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on digital levels ran by B&amp;F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&amp;F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 &amp; Y 136. This elevation supersedes a previous elevation of 310.2320'.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100006	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070245
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,401.9309	
<b>Easting (M)</b>	291,076.8870	
<b>Elevation (M)*</b>	94.473	
<b>Northing (SFT)</b>	1,835,304.5016	
<b>Easting (SFT)</b>	954,974.7534	
<b>Elevation (SFT)*</b>	309.950	

  

<b>Convergence Angle</b>	0	39	38.5680588
<b>Scale Factor</b>	0.999919087		
<b>Elevation Adjust. Factor</b>	0.9999851744		
<b>Combined Adjust. Factor</b>	0.9999042626		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	279	13.60	44.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD HOP1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD MON1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LROC</td> </tr> </table>	Ref Mon # 1	AHTD HOP1	Ref Mon # 2	AHTD MON1	Ref Mon # 3	AHTD LROC	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3WIRE BY S5101 FROM NGS X137</td> </tr> </table>	Comments	ELEV BY 3WIRE BY S5101 FROM NGS X137
Ref Mon # 1	AHTD HOP1								
Ref Mon # 2	AHTD MON1								
Ref Mon # 3	AHTD LROC								
Comments									
ELEV BY 3WIRE BY S5101 FROM NGS X137									

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 5 53.4980652
<b>Longitude</b>	93 10 49.7903124
<b>Ellipsoid Height (M):</b>	67.613
<b>Geoid Height (M):</b>	-26.778

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 4.05 MILES TO THE STATION ON THE RIGHT ON TOP OF A HIGH BANK. THE STATION IS 13.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 26 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	100006A
<b>Geodetic Azimuth</b>	280 23 28
<b>Grid Azimuth</b>	281 03 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100006A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070245
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,502.6270	
<b>Easting (M)</b>	290,561.3390	
<b>Elevation (M)*</b>	83.840	
<b>Northing (SFT)</b>	1,835,634.8687	
<b>Easting (SFT)</b>	953,283.3264	
<b>Elevation (SFT)*</b>	275.065	

  

<b>Convergence Angle</b>	0	39	49.8506171
<b>Scale Factor</b>	0.999919103		
<b>Elevation Adjust. Factor</b>	0.9999868429		
<b>Combined Adjust. Factor</b>	0.9999059470		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF CORRIGATED METAL PIPE	304	5.50	18.0
<b>MK # 2</b>	WOOD CORNER POST	260	6.30	20.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOP1	ELEV BY 3WIRE BY S5101 FROM NGS X137
<b>Ref Mon # 2</b> AHTD MON1	
<b>Ref Mon # 3</b> AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100007	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070245,070237
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,981.1410	
<b>Easting (M)</b>	285,970.6280	
<b>Elevation (M)*</b>	80.334	
<b>Northing (SFT)</b>	1,837,204.7934	
<b>Easting (SFT)</b>	938,221.9687	
<b>Elevation (SFT)*</b>	263.561	

  

<b>Convergence Angle</b>	0	41	30.2161965
<b>Scale Factor</b>	0.999919180		
<b>Elevation Adjust. Factor</b>	0.9999873932		
<b>Combined Adjust. Factor</b>	0.9999065742		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	90	3.30	10.8
<b>MK # 2</b>	EAST END REINFORCED CONCRETE PIPE	273	16.00	52.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOP1	ELEV BY 3WIRE BY S5101 FROM NGS X137
<b>Ref Mon # 2</b> AHTD MON1	
<b>Ref Mon # 3</b> AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100007A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070245,070237
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	560,123.3720	
<b>Easting (M)</b>	285,574.9760	
<b>Elevation (M)*</b>	75.368	
<b>Northing (SFT)</b>	1,837,671.4296	
<b>Easting (SFT)</b>	936,923.9004	
<b>Elevation (SFT)*</b>	247.269	

  

<b>Convergence Angle</b>	0	41	38.8933776
<b>Scale Factor</b>	0.999919206		
<b>Elevation Adjust. Factor</b>	0.9999881725		
<b>Combined Adjust. Factor</b>	0.9999073794		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 0.47 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 26, 4.60 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HOP1</p> <p>Ref Mon # 2    AHTD MON1</p> <p>Ref Mon # 3    AHTD LROC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3WIRE BY S5101 FROM NGS X137</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100008	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,874.9730	
<b>Easting (M)</b>	270,681.0600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,820,452.3073	
<b>Easting (SFT)</b>	888,059.4444	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	2.5504530
<b>Scale Factor</b>	0.999918534		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	242	7.40	24.3
MK # 2	GUY	319	2.30	7.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 3 18.2304432
<b>Longitude</b>	93 24 3.0541716
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-26.936

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.7 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.7 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. EAST OF A GRAVEL DRIVE 14.2 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	100008A
<b>Geodetic Azimuth</b>	220 57 57
<b>Grid Azimuth</b>	221 44 59

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100008A	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,650.3910	
<b>Easting (M)</b>	270,480.6150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,819,715.4911	
<b>Easting (SFT)</b>	887,401.8177	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	6.8576980
<b>Scale Factor</b>	0.999918522		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 34 3 10.8526644

**Longitude** 93 24 10.7499312

**Ellipsoid Height (M):** 64.864

**Geoid Height (M):** -26.936

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.5 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.0 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100009	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,574.6640	
<b>Easting (M)</b>	272,411.9140	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,826,028.7101	
<b>Easting (SFT)</b>	893,738.0878	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	25.2779023
<b>Scale Factor</b>	0.999918668		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	214	3.40	11.2
MK # 2	FIRE HYDRANT	134	11.90	39.0
MK # 3	CONC WPA MARKER	237	3.70	12.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AHTD LROC Ref Mon # 2    HOPE, DQUA Ref Mon # 3    100007,100007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.</td> </tr> </table>	Comments	ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.
Comments			
ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 3.2 MILES TO THE STATION ON THE RIGHT. SOUTHEAST 8.0 METERS OF THE CENTERLINE AND 0.50 METERS NORTHWEST OF A WITNESS POST. SOUTHWEST 19.7 METERS OF SMYRNA GRAVEL ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100009 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	NONE		
<b>Elevation Datum:</b>	NONE		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	4	14.1566196
<b>Longitude</b>	93	22	56.4592620
<b>Ellipsoid Height (M):</b>	93.383		
<b>Geoid Height (M):</b>	-26.937		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100010	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	557,794.2049		
<b>Easting (M)</b>	277,661.2870		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,830,029.8206		
<b>Easting (SFT)</b>	910,960.4058		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	44	31.0406738
<b>Scale Factor</b>	0.999918816		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 6.6 MILES TO THE STATION ON THE RIGHT. SOUTHEAST 10.4 METERS OF THE CENTERLINE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD LROC</p> <p><b>Ref Mon # 2</b>    HOPE, DQUA</p> <p><b>Ref Mon # 3</b>    100007,100007A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3WR FROM NGS X 137 - RV 542</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100010A	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	558,020.5790	
<b>Easting (M)</b>	277,959.8270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,830,772.5163	
<b>Easting (SFT)</b>	911,939.8657	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	44	24.5871738
<b>Scale Factor</b>	0.999918847		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	222	6.80	22.3
MK # 2	POWER POLE	60	9.40	30.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100011	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070237
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,019.1120	
<b>Easting (M)</b>	280,989.5770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,834,048.5366	
<b>Easting (SFT)</b>	921,879.9705	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	18.7183066
<b>Scale Factor</b>	0.999919002		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 8.9 MILES TO THE STATION ON THE LEFT. NORTH 12.2 METERS OF THE CENTERLINE AND 0.50 METERS SOUTH OF A WITNESS POST, AND 11.0 METERS WEST OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100011 2003" ON TOP OF A 0.62 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						NONE
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD LROC <b>Ref Mon # 2</b> HOPE, DQUA <b>Ref Mon # 3</b> 100007,100007A	ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100012	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 070240
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	561,149.4360				
<b>Easting (M)</b>	305,150.2880				
<b>Elevation (M)*</b>	56.770				
<b>Northing (SFT)</b>	1,841,037.7746				
<b>Easting (SFT)</b>	1,001,147.2365				
<b>Elevation (SFT)*</b>	186.253				

  

<b>Convergence Angle</b>	0	34	31.6508396
<b>Scale Factor</b>	0.999919462		
<b>Elevation Adjust. Factor</b>	0.9999910910		
<b>Combined Adjust. Factor</b>	0.9999105537		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7, 8, AND 51, SOUTHEAST OF ARKADELPHIA, GO SOUTH ON HIGHWAY 7, 0.05 MILES TO THE STATION ON THE LEFT. NORTHEAST 11.5 METERS OF THE CENTERLINE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100012 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE GATE POST	339	26.30	86.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: HOPE, MEM2 Ref Mon # 2: 100005A Ref Mon # 3: DQUA, FRANKLIN2	<b>Comments</b>  Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100012A	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 070240
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	560,560.2470	
<b>Easting (M)</b>	305,471.0540	
<b>Elevation (M)*</b>	55.692	
<b>Northing (SFT)</b>	1,839,104.7437	
<b>Easting (SFT)</b>	1,002,199.6163	
<b>Elevation (SFT)*</b>	182.715	

  

<b>Convergence Angle</b>	0	34	24.5165296
<b>Scale Factor</b>	0.999919337		
<b>Elevation Adjust. Factor</b>	0.9999912603		
<b>Combined Adjust. Factor</b>	0.9999105980		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7, 8, AND 51, SOUTHEAST OF ARKADELPHIA, GO SOUTH ON HIGHWAY 7 0.40 MILES TO THE STATION ON THE RIGHT. 9.8 METERS WEST OF THE CENTERLINE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100012A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	308	21.60	70.9
MK # 2	POWER POLE	305	21.20	69.6
MK # 3	GUY	300	16.90	55.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPE, MEM2 <b>Ref Mon # 2</b> 100005A <b>Ref Mon # 3</b> DQUA, FRANKLIN2	Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100013	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> R30011
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	528,043.8131	
<b>Easting (M)</b>	294,544.7850	
<b>Elevation (M)*</b>	54.890	
<b>Northing (SFT)</b>	1,732,423.7435	
<b>Easting (SFT)</b>	966,352.3488	
<b>Elevation (SFT)*</b>	180.085	

  

<b>Convergence Angle</b>	0	38	15.2259732
<b>Scale Factor</b>	0.999925706		
<b>Elevation Adjust. Factor</b>	0.9999913860		
<b>Combined Adjust. Factor</b>	0.9999170927		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND 124, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.05 MILES TO THE STATION ON THE LEFT, AT THE NORTHWEST END OF THE BRIDGE ACROSS THE LITTLE MISSOURI RIVER, NORTHWEST 5.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100013 12004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF BRIDGE	212	2.50	8.2
MK # 2	1ST CONC GUARD RAIL POST	70	2.40	7.9
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b> 3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
Ref Mon # 1	S 197	
Ref Mon # 2	AHTD HOPE, LROC	
Ref Mon # 3	DQUA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100013A	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> R30011
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	528,130.4741		
<b>Easting (M)</b>	294,803.3060		
<b>Elevation (M)*</b>	53.430		
<b>Northing (SFT)</b>	1,732,708.0638		
<b>Easting (SFT)</b>	967,200.5131		
<b>Elevation (SFT)*</b>	175.296		

  

<b>Convergence Angle</b>	0	38	9.6206799
<b>Scale Factor</b>	0.999925653		
<b>Elevation Adjust. Factor</b>	0.9999916151		
<b>Combined Adjust. Factor</b>	0.9999172687		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND 124, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.25 MILES TO THE STATION ON THE LEFT, 5.80 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 7.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100013A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: S 197	3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
Ref Mon # 2: AHTD HOPE, LROC	
Ref Mon # 3: DQUA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100014	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070265
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,169.3210	
<b>Easting (M)</b>	292,296.7920	
<b>Elevation (M)*</b>	71.608	
<b>Northing (SFT)</b>	1,782,048.0140	
<b>Easting (SFT)</b>	958,977.0584	
<b>Elevation (SFT)*</b>	234.932	

  

<b>Convergence Angle</b>	0	39	7.8963830
<b>Scale Factor</b>	0.999919499		
<b>Elevation Adjust. Factor</b>	0.9999887626		
<b>Combined Adjust. Factor</b>	0.9999082625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	121	12.40	40.7
<b>MK # 2</b>	TELEPHONE RISER	124	14.15	46.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> C.O.R.S. HOPE <b>Ref Mon # 2</b> LROC <b>Ref Mon # 3</b> G 23, 100007	<b>Comments</b> 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151
--	--

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 57 7.1142336
<b>Longitude</b>	93 9 54.9891936
<b>Ellipsoid Height (M):</b>	44.981
<b>Geoid Height (M):</b>	-26.625

Location Description
T REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON, GO NORTH ON HWY-53 FOR 1.50 MILES TO THE STATION ON THE LEFT. 10.40 METERS SOUTHWEST OF THE CENTER OF HWY-53, 6.40 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVE IN A POWERLINE RIGHT OF WAY AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100014 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100014A	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070265
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,553.2660	
<b>Easting (M)</b>	291,978.8490	
<b>Elevation (M)*</b>	69.672	
<b>Northing (SFT)</b>	1,783,307.6735	
<b>Easting (SFT)</b>	957,933.9404	
<b>Elevation (SFT)*</b>	228.582	

  

<b>Convergence Angle</b>	0	39	14.9223929
<b>Scale Factor</b>	0.999919416		
<b>Elevation Adjust. Factor</b>	0.9999890663		
<b>Combined Adjust. Factor</b>	0.9999084832		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	338	2.35	7.7
<b>MK # 2</b>	COMBINATION POLE	140	10.10	33.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="CORS HOPE"/>	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151
<b>Ref Mon # 2</b> <input type="text" value="LROC"/>	
<b>Ref Mon # 3</b> <input type="text" value="G 23, 100007"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100015	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070265, 070573
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	548,222.1854	0.0030	
<b>Easting (M)</b>	290,627.2679	0.0030	
<b>Elevation (M)*</b>	72.650		
<b>Northing (SFT)</b>	1,798,625.6199		
<b>Easting (SFT)</b>	953,499.6281		
<b>Elevation (SFT)*</b>	238.352		

  

<b>Convergence Angle</b>	0	39	45.5621650
<b>Scale Factor</b>	0.999918678		
<b>Elevation Adjust. Factor</b>	0.9999885990		
<b>Combined Adjust. Factor</b>	0.9999072779		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	59	50.4866040
<b>Longitude</b>	93	11	2.2873056
<b>Ellipsoid Height:</b>	45.961		
<b>Grid Northing (Meters)</b>	548,222.1741		
<b>Grid Easting (Meters)</b>	290,627.2520		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE END	185	2.60	8.5
MK # 2	CONCRETE HEADWALL AND DRAIN	350	6.30	20.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM (C.O.R.S. HOPE)	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151 *****SUPERCEDED GEOID HT. WAS -26.690m***** *****
Ref Mon # 2    ARGS (LROC)	
Ref Mon # 3    ARHP (G 23, 100007)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100015A	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> I 40	<b>Job Number:</b> 070265, 070573
---------------------------	------------------------------------	------------------------------	------------------------	----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	547,660.8653	0.0030	
<b>Easting (M)</b>	290,204.0369	0.0030	
<b>Elevation (M)*</b>	75.474		
<b>Northing (SFT)</b>	1,796,784.0222		
<b>Easting (SFT)</b>	952,111.0777		
<b>Elevation (SFT)*</b>	247.617		

  

<b>Convergence Angle</b>	0	39	54.6504273
<b>Scale Factor</b>	0.999918739		
<b>Elevation Adjust. Factor</b>	0.9999881559		
<b>Combined Adjust. Factor</b>	0.9999068958		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	59	32.1094464
<b>Longitude</b>	93	11	18.5248824
<b>Ellipsoid Height:</b>	48.842		
<b>Grid Northing (Meters)</b>	547,660.8541		
<b>Grid Easting (Meters)</b>	290,204.0320		

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 53 NEAR GURDON, GO WEST ON INTERSTATE 40 TO THE STATION IN THE MEDIAN. 8.60 METERS SOUTHEAST OF THE EDGE OF THE WEST BOUND LANE, 7.05 METERS NORTHWEST OF THE EDGE OF THE EAST BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100015A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARCM (C.O.R.S. HOPE) Ref Mon # 2    ARGS (LROC) Ref Mon # 3    ARHP (G 23, 100007)	<b>Comments</b> 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151 ***** DED GEOID HT. WAS -26.688m *****
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100016	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070265
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	551,004.1180	
<b>Easting (M)</b>	288,626.1200	
<b>Elevation (M)*</b>	65.483	
<b>Northing (SFT)</b>	1,807,752.6771	
<b>Easting (SFT)</b>	946,934.1954	
<b>Elevation (SFT)*</b>	214.837	

  

<b>Convergence Angle</b>	0	40	29.9205979
<b>Scale Factor</b>	0.999918492		
<b>Elevation Adjust. Factor</b>	0.9999897238		
<b>Combined Adjust. Factor</b>	0.9999082166		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 IN HOLLYWOOD GO SOUTH ON HWY-53 FOR 3.40 MILES TO THE STATION ON THE LEFT. 13.60 METERS EAST OF THE CENTER OF HWY-53 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100016 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	EAST END OF CULVERT	280	32.70	107.3		100016A
MK # 2						127 00 11
MK # 3						127 40 41

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> C.O.R.S. HOPE <b>Ref Mon # 2</b> LROC <b>Ref Mon # 3</b> G 23, 100007	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100016A	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 53	<b>Job Number:</b> 070265
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	550,766.1630				
<b>Easting (M)</b>	288,934.2400				
<b>Elevation (M)*</b>	63.809				
<b>Northing (SFT)</b>	1,806,971.9864				
<b>Easting (SFT)</b>	947,945.0857				
<b>Elevation (SFT)*</b>	209.347				

  

<b>Convergence Angle</b>	0	40	23.1377647
<b>Scale Factor</b>	0.999918501		
<b>Elevation Adjust. Factor</b>	0.9999899864		
<b>Combined Adjust. Factor</b>	0.9999084882		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HIGHWAY 53 FOR 3.70 MILES TO THE STATION ON THE RIGHT. 11.70 METERS SOUTHWEST OF THE CENTER OF HWY-53 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "100016A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	100016
MK # 2					<b>Geodetic Azimuth</b>	307 00 18
MK # 3					<b>Grid Azimuth</b>	307 40 41

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> C.O.R.S. HOPE <b>Ref Mon # 2</b> LROC <b>Ref Mon # 3</b> G 23, 100007	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100017	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070265
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,490.4730	
<b>Easting (M)</b>	284,987.7730	
<b>Elevation (M)*</b>	70.309	

  

<b>Northing (SFT)</b>	1,819,190.8268	
<b>Easting (SFT)</b>	934,997.3853	
<b>Elevation (SFT)*</b>	230.673	

  

<b>Convergence Angle</b>	0	41	50.2188550
<b>Scale Factor</b>	0.999918523		
<b>Elevation Adjust. Factor</b>	0.9999889663		
<b>Combined Adjust. Factor</b>	0.9999074902		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.10 MILES TO THE STATION ON THE LEFT IN FRONT OF THE TRINITY UNITED METHODIST CHURCH. 8.20 METERS SOUTHEAST OF THE CENTER OF HIGHWAY 51. THERE IS NO WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	189	5.20	17.1
MK # 2	SIGN	194	5.40	17.7
MK # 3	SOUTHEAST CORNER OF A SIDEWALK	103	16.90	55.4

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    C.O.R.S. HOPE Ref Mon # 2    LROC Ref Mon # 3    G 23, 100007	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151                 </td> </tr> </table>	Comments	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151
Comments			
3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100017A	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070265
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,315.5580	
<b>Easting (M)</b>	284,720.3980	
<b>Elevation (M)*</b>	69.812	
<b>Northing (SFT)</b>	1,818,616.9599	
<b>Easting (SFT)</b>	934,120.1724	
<b>Elevation (SFT)*</b>	229.042	

  

<b>Convergence Angle</b>	0	41	56.0073519
<b>Scale Factor</b>	0.999918515		
<b>Elevation Adjust. Factor</b>	0.9999890443		
<b>Combined Adjust. Factor</b>	0.9999075602		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	024	36.90	121.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> C.O.R.S. HOPE <b>Ref Mon # 2</b> LROC <b>Ref Mon # 3</b> G 23, 100007	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 3 5.9715792
<b>Longitude</b>	93 14 55.3532568
<b>Ellipsoid Height (M):</b>	43.123
<b>Geoid Height (M):</b>	-26.802

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 12.70 METERS NORTHWEST OF THE CENTER OF HWY-51 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	100017
<b>Geodetic Azimuth</b>	056 06 31
<b>Grid Azimuth</b>	056 48 27

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100018	<b>Date Monumented</b> 10/26/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070294
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,136.9490	
<b>Easting (M)</b>	297,026.9920	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,824,592.6402	
<b>Easting (SFT)</b>	974,496.0563	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	27.8684644
<b>Scale Factor</b>	0.999918655		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" RCP WITH HEADWALL	203	8.30	27.2
<b>MK # 2</b>	FIRE HYDRANT	330	18.55	60.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARK1 <b>Ref Mon # 2</b> DQUA <b>Ref Mon # 3</b> CSAL	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 4 9.6979764
<b>Longitude</b>	93 6 56.2691952
<b>Ellipsoid Height (M):</b>	70.955
<b>Geoid Height (M):</b>	-26.689

Location Description
TO REACH THE STATION MARK FORM THE JUNCTION OF I 30 AND STATE HIGHWAY 26, NORTHWEST OF GUM SPRINGS, GO EAST ON STATE HIGHWAY 26 0.3 MILES TO THE STATION ON THE ,LEFT, SOUTHEAST 11.0 METERS OF A CONCRETE DRIVE, NORTHEAST 17.35 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100018 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN BELOW THE GROUND LEVEL.



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100018A	<b>Date Monumented</b> 10/26/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070294
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,524.8400	
<b>Easting (M)</b>	296,625.2550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,825,865.2459	
<b>Easting (SFT)</b>	973,178.0241	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	36.7301990
<b>Scale Factor</b>	0.999918693		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" CMP	130	8.00	26.2
MK # 2	SOUTHWEST CORNER OF BACK WALL OF B	320	1.70	5.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARK1	
Ref Mon # 2    DQUA	
Ref Mon # 3    CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100019	<b>Date Monumented</b> 1/6/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070344
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	544,633.3480	
<b>Easting (M)</b>	295,681.1940	
<b>Elevation (M)*</b>	60.264	
<b>Northing (SFT)</b>	1,786,851.2426	
<b>Easting (SFT)</b>	970,080.7173	
<b>Elevation (SFT)*</b>	197.714	

  

<b>Convergence Angle</b>	0	37	54.4754654
<b>Scale Factor</b>	0.999919189		
<b>Elevation Adjust. Factor</b>	0.9999905428		
<b>Combined Adjust. Factor</b>	0.9999097325		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	180	14.28	46.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> G 23, G23A	ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    57    55.8614304
<b>Longitude</b>	93    7    43.8079548
<b>Ellipsoid Height (M):</b>	33.663
<b>Geoid Height (M):</b>	-26.609

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 2.65 MILES TO THE MARK ON THE RIGHT, 45.7 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, NORTH 76 FEET OF THE C/L OF LOCKIE ROAD AND WEST 14.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100019A	<b>Date Monumented</b> 1/6/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070344
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	545,236.9831	
<b>Easting (M)</b>	295,861.1400	
<b>Elevation (M)*</b>	61.558	
<b>Northing (SFT)</b>	1,788,831.6687	
<b>Easting (SFT)</b>	970,671.0902	
<b>Elevation (SFT)*</b>	201.963	

  

<b>Convergence Angle</b>	0	37	50.6972772
<b>Scale Factor</b>	0.999919079		
<b>Elevation Adjust. Factor</b>	0.9999903396		
<b>Combined Adjust. Factor</b>	0.9999094193		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	10	18.84	61.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> G 23, G 23A	ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

  

<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 58 15.5173296
<b>Longitude</b>	93 7 37.0574616
<b>Ellipsoid Height (M):</b>	34.938
<b>Geoid Height (M):</b>	-26.613

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 3.0 MILES TO THE MARK ON THE LEFT, 43.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 8.6 FEET OF THE C/L OF A GRAVEL ROAD AND NORTHEAST 20.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100020	<b>Date Monumented</b> 1/6/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> CR 9	<b>Job Number:</b> 070344
--------------------------	------------------------------------	------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	548,157.3221	
<b>Easting (M)</b>	299,159.7280	
<b>Elevation (M)*</b>	53.711	
<b>Northing (SFT)</b>	1,798,412.8143	
<b>Easting (SFT)</b>	981,493.2076	
<b>Elevation (SFT)*</b>	176.218	

  

<b>Convergence Angle</b>	0	36	39.4576817
<b>Scale Factor</b>	0.999918675		
<b>Elevation Adjust. Factor</b>	0.9999915710		
<b>Combined Adjust. Factor</b>	0.9999102467		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	25.91	85.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> G 23, G23A	ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 59 51.4597992
<b>Longitude</b>	93 5 29.7735936
<b>Ellipsoid Height (M):</b>	27.105
<b>Geoid Height (M):</b>	-26.606

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.3 MILES TO THE MARK ON THE LEFT, 25.1 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), SOUTH 2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100021	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070363, 070364, 070442
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	561,536.4382	0.0020
<b>Easting (M)</b>	299,217.3829	0.0020
<b>Elevation (M)*</b>	101.779	

  

<b>Northing (SFT)</b>	1,842,307.4643	
<b>Easting (SFT)</b>	981,682.3637	
<b>Elevation (SFT)*</b>	333.919	

  

<b>Convergence Angle</b>	0 36	41.3144701
<b>Scale Factor</b>	0.999919536	
<b>Elevation Adjust. Factor</b>	0.9999840279	
<b>Combined Adjust. Factor</b>	0.9999035651	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Latitude</b>	34 7	5.7071748
<b>Longitude</b>	93 5	33.0917244
<b>Ellipsoid Height:</b>	75.001	
<b>Grid Northing (Meters)</b>	561,536.4394	
<b>Grid Easting (Meters)</b>	299,217.3675	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	260	8.99	29.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

  

**Vertical Determined By:** SEE COMMENTS

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude** 34 7 5.7071424

**Longitude** 93 5 33.0911196

**Ellipsoid Height (M):** 74.952 0.0050

**Geoid Height (M):** -26.837 0.0050

  

**Location Description**

THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 51 AND I 40, WEST OF ARKADELPHIA, AT THE NORTHEAST CORNER OF THE HIGHWAY 51 OVERPASS OVER I 40, SOUTH 10.7 FEET OF THE BACK OF THE CURB, AND SOUTH 1.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100021 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	100005A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011. (ORIG. STATIC USED GEOID 09 W/- 26.777m GEOID HT.)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100022	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070364
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	558,977.3552	
<b>Easting (M)</b>	292,231.6871	
<b>Elevation (M)*</b>	108.515	
<b>Northing (SFT)</b>	1,833,911.5395	
<b>Easting (SFT)</b>	958,763.4601	
<b>Elevation (SFT)*</b>	356.019	

  

<b>Convergence Angle</b>	0	39	13.2469664
<b>Scale Factor</b>	0.999919017		
<b>Elevation Adjust. Factor</b>	0.9999829708		
<b>Combined Adjust. Factor</b>	0.9999019892		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY	316	13.20	43.3
<b>MK # 2</b>	POWER POLE	331	16.25	53.3
<b>MK # 3</b>	WEST END OF GATE	54	18.14	59.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

  

Location Description	
<p>THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 51 AND STATE HIGHWAY 26, SOUTHWEST OF ARKADELPHIA, THE MARK IS NORTH 18.5 FEET OF THE CENTER OF THE INTERSECTION, 71 FEET WEST OF A GRAVEL FIELD ROAD AND 38 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100022 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>Vertical Determined By:</b>	SEE COMMENTS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 5 40.1483292
<b>Longitude</b>	93 10 4.5490872
<b>Ellipsoid Height (M):</b>	81.668
<b>Geoid Height (M):</b>	-26.830

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100022A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 26	<b>Job Number:</b> 070364
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,125.2794	
<b>Easting (M)</b>	291,799.5440	
<b>Elevation (M)*</b>	92.779	
<b>Northing (SFT)</b>	1,834,396.8542	
<b>Easting (SFT)</b>	957,345.6706	
<b>Elevation (SFT)*</b>	304.393	

  

<b>Convergence Angle</b>	0	39	22.7194897
<b>Scale Factor</b>	0.999919041		
<b>Elevation Adjust. Factor</b>	0.9999854401		
<b>Combined Adjust. Factor</b>	0.9999044823		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADDELPHIA, GO WEST ON 26 FOR 0.25 MILES TO THE MARK ON THE RIGHT, 19 FEET EAST OF THE CENTERLINE OF ROOSTER ROAD, 38.4 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 18.3 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100022A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CULVERT	100	7.80	25.6
MK # 2	GUY	355	11.98	39.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation established by digital levels from 2nd Order NGS BM's X 136 &amp; Y 136 by B&amp;F Engineering in Dec. 2011.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100023	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070364
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,371.9859	
<b>Easting (M)</b>	295,671.8409	
<b>Elevation (M)*</b>	77.545	
<b>Northing (SFT)</b>	1,835,206.2571	
<b>Easting (SFT)</b>	970,050.0314	
<b>Elevation (SFT)*</b>	254.412	

  

<b>Convergence Angle</b>	0	37	58.2285743
<b>Scale Factor</b>	0.999919090		
<b>Elevation Adjust. Factor</b>	0.9999878308		
<b>Combined Adjust. Factor</b>	0.9999069218		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADELPHIA, GO NORTH ON 51 FOR 2.2 MILES TO THE MARK ON THE RIGHT, 26.7 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 44.5 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100023 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation established by digital levels from 2nd Order NGS BM's X 136 &amp; Y 136 by B&amp;F Engineering in Dec. 2011.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100023A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070364
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,156.2582	
<b>Easting (M)</b>	295,060.6883	
<b>Elevation (M)*</b>	100.591	
<b>Northing (SFT)</b>	1,834,498.4904	
<b>Easting (SFT)</b>	968,044.9415	
<b>Elevation (SFT)*</b>	330.022	

  

<b>Convergence Angle</b>	0	38	11.5209717
<b>Scale Factor</b>	0.999919052		
<b>Elevation Adjust. Factor</b>	0.9999842143		
<b>Combined Adjust. Factor</b>	0.9999032675		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADELPHIA, GO NORTH ON 51 FOR 1.8 MILES TO THE MARK ON THE RIGHT, 25.6 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 34.0 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100023A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation established by digital levels from 2nd Order NGS BM's X 136 &amp; Y 136 by B&amp;F Engineering in Dec. 2011.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100024	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	562,392.1600	
<b>Easting (M)</b>	295,949.7419	
<b>Elevation (M)*</b>	101.010	
<b>Northing (SFT)</b>	1,845,114.9449	
<b>Easting (SFT)</b>	970,961.7782	
<b>Elevation (SFT)*</b>	331.396	

  

<b>Convergence Angle</b>	0	37	52.8872170
<b>Scale Factor</b>	0.999919732		
<b>Elevation Adjust. Factor</b>	0.9999841486		
<b>Combined Adjust. Factor</b>	0.9999038818		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/3 GUY	70	12.19	40.0
<b>MK # 2</b>	TELEPHONE BOX	55	13.78	45.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b>	SEE COMMENTS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 7 32.3294880
<b>Longitude</b>	93 7 40.9702296
<b>Ellipsoid Height (M):</b>	74.173
<b>Geoid Height (M):</b>	-26.817

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADDELPHIA, GO EAST ON HIGHWAY 8 FOR 10 .6 MILES TO THE MARK ON THE LEFT, EAST 118.5 FEET OF THE CENTERLINE OF DEGRAY ROAD, NORTH 20.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100024A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	561,733.9117	
<b>Easting (M)</b>	295,916.0827	
<b>Elevation (M)*</b>	109.275	
<b>Northing (SFT)</b>	1,842,955.3420	
<b>Easting (SFT)</b>	970,851.3480	
<b>Elevation (SFT)*</b>	358.514	

  

<b>Convergence Angle</b>	0	37	53.4639359
<b>Scale Factor</b>	0.999919573		
<b>Elevation Adjust. Factor</b>	0.9999828515		
<b>Combined Adjust. Factor</b>	0.9999024258		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 10 .6 MILES TO MT ZION ROAD AND TURN RIGHT AND GO 0.4 MILES TO THE MARK ON THE LEFT, NORTH 43.9 FEET OF THE CENTERLINE OF A DRIVEWAY, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	85	4.72	15.5
MK # 2	TELEPHONE BOX	73	4.36	14.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on digital levels ran by B&amp;F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&amp;F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 &amp; Y 136.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100025	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,971.6528	
<b>Easting (M)</b>	292,058.3512	
<b>Elevation (M)*</b>	117.910	
<b>Northing (SFT)</b>	1,850,296.9976	
<b>Easting (SFT)</b>	958,194.7739	
<b>Elevation (SFT)*</b>	386.842	

  

<b>Convergence Angle</b>	0	39	18.2784442
<b>Scale Factor</b>	0.999920144		
<b>Elevation Adjust. Factor</b>	0.9999814965		
<b>Combined Adjust. Factor</b>	0.9999016420		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.0 MILES TO THE MARK ON THE RIGHT, WEST 45.8 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 19.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 14.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100025A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,938.1579	
<b>Easting (M)</b>	292,474.3648	
<b>Elevation (M)*</b>	124.797	
<b>Northing (SFT)</b>	1,850,187.1064	
<b>Easting (SFT)</b>	959,559.6452	
<b>Elevation (SFT)*</b>	409.437	

  

<b>Convergence Angle</b>	0	39	9.1819491
<b>Scale Factor</b>	0.999920136		
<b>Elevation Adjust. Factor</b>	0.9999804157		
<b>Combined Adjust. Factor</b>	0.9999005533		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.25 MILES TO THE MARK ON THE LEFT, EAST 14.5 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY, NORTH 28.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100026	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	567,471.7170	
<b>Easting (M)</b>	289,013.4970	
<b>Elevation (M)*</b>	134.230	
<b>Northing (SFT)</b>	1,861,780.1249	
<b>Easting (SFT)</b>	948,205.1147	
<b>Elevation (SFT)*</b>	440.388	

  

<b>Convergence Angle</b>	0	40	25.6947403
<b>Scale Factor</b>	0.999921288		
<b>Elevation Adjust. Factor</b>	0.9999789353		
<b>Combined Adjust. Factor</b>	0.9999002250		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTHWEST 155 FEET OF THE CENTERLINE OF A WILLIAMS DRIVE, NORTHEAST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 14.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	344	23.16	76.0
MK # 2	FENCE CORNER	54	4.57	15.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on digital levels ran by B&amp;F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&amp;F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 &amp; Y 136.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100026A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	566,984.6586	
<b>Easting (M)</b>	289,290.9660	
<b>Elevation (M)*</b>	124.314	
<b>Northing (SFT)</b>	1,860,182.1674	
<b>Easting (SFT)</b>	949,115.4443	
<b>Elevation (SFT)*</b>	407.852	

  

<b>Convergence Angle</b>	0	40	19.5061394
<b>Scale Factor</b>	0.999921111		
<b>Elevation Adjust. Factor</b>	0.9999804915		
<b>Combined Adjust. Factor</b>	0.9999016041		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.35 MILES TO THE MARK ON THE RIGHT, WEST 179.5 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 30.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100027	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	569,230.1505	
<b>Easting (M)</b>	285,743.4818	
<b>Elevation (M)*</b>	150.151	
<b>Northing (SFT)</b>	1,867,549.2521	
<b>Easting (SFT)</b>	937,476.7399	
<b>Elevation (SFT)*</b>	492.621	

  

<b>Convergence Angle</b>	0	41	37.6218755
<b>Scale Factor</b>	0.999921966		
<b>Elevation Adjust. Factor</b>	0.9999764369		
<b>Combined Adjust. Factor</b>	0.9998984048		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100027A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	569,236.2587	
<b>Easting (M)</b>	286,339.4843	
<b>Elevation (M)*</b>	142.562	
<b>Northing (SFT)</b>	1,867,569.2921	
<b>Easting (SFT)</b>	939,432.1247	
<b>Elevation (SFT)*</b>	467.721	

  

<b>Convergence Angle</b>	0	41	24.5962671
<b>Scale Factor</b>	0.999921972		
<b>Elevation Adjust. Factor</b>	0.9999776279		
<b>Combined Adjust. Factor</b>	0.9998996017		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 2.95 MILES TO THE MARK ON THE LEFT, NORTH 42.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 12 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on digital levels ran by B&amp;F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&amp;F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 &amp; Y 136.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100028	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	570,032.9804	
<b>Easting (M)</b>	281,624.7653	
<b>Elevation (M)*</b>	144.983	
<b>Northing (SFT)</b>	1,870,183.2032	
<b>Easting (SFT)</b>	923,963.9175	
<b>Elevation (SFT)*</b>	475.664	

  

<b>Convergence Angle</b>	0	43	7.8669843
<b>Scale Factor</b>	0.999922285		
<b>Elevation Adjust. Factor</b>	0.9999772480		
<b>Combined Adjust. Factor</b>	0.9998995348		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTH OF HOLLYWOOD, GO WEST ON HIGHWAY 8 FOR 0.3 MILES TO THE MARK ON THE RIGHT, NORTH 55.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 10.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on digital levels ran by B&amp;F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&amp;F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 &amp; Y 136.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100028A	<b>Date Monumented</b> 8/10/2011	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 8	<b>Job Number:</b> 070363
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	570,143.2381	
<b>Easting (M)</b>	281,183.3664	
<b>Elevation (M)*</b>	146.742	
<b>Northing (SFT)</b>	1,870,544.9403	
<b>Easting (SFT)</b>	922,515.7613	
<b>Elevation (SFT)*</b>	481.435	

  

<b>Convergence Angle</b>	0	43	17.5459872
<b>Scale Factor</b>	0.999922331		
<b>Elevation Adjust. Factor</b>	0.9999769720		
<b>Combined Adjust. Factor</b>	0.9998993048		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Ref Mon # 2	
Ref Mon # 3	

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 11 38.2293348
<b>Longitude</b>	93 17 21.0384312
<b>Ellipsoid Height (M):</b>	119.691
<b>Geoid Height (M):</b>	-27.069

  

Location Description
<p>TO REACH THE STATION MARK FROM THE STATION MARK IS LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 53 AND 8, NORTH OF HOLLYWOOD, 56.3 FEET SOUTH OF THE CENTERLINE OF HIGHWAY 8, EAST 76.7 FEET OF THE CENTERLINE OF HIGHWAY 53 AND NORTH 21.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100028A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND,</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100029	<b>Date Monumented</b> 9/25/2012	<b>Monumented By</b> AHTD	<b>County</b> Clark	<b>Route</b> 67	<b>Job Number:</b> 070376,070460
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	570,930.3449	0.0020	
<b>Easting (M)</b>	304,499.3399	0.0020	
<b>Elevation (M)*</b>	77.045		
<b>Northing (SFT)</b>	1,873,127.3066		
<b>Easting (SFT)</b>	999,011.5843		
<b>Elevation (SFT)*</b>	252.771		

  

<b>Convergence Angle</b>	0	34	48.0299948
<b>Scale Factor</b>	0.999922804		
<b>Elevation Adjust. Factor</b>	0.9999879093		
<b>Combined Adjust. Factor</b>	0.9999107143		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	12	12.3697080
<b>Longitude</b>	93	2	10.6854000
<b>Ellipsoid Height:</b>	50.362		
<b>Grid Northing (Meters)</b>	570,930.3453		
<b>Grid Easting (Meters)</b>	304,499.3455		

  

Location Description				
To reach from the Hot Springs and Clark Co. line on hwy.67, go southwest for .55miles to the station on the left. A standard alum cap stamped 100029 2012 on a 4ft 5/8 rebar driven 2" below ground surface. Lat-034.12.11 Long-093.02.13				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of hwy.67		13.10	43.0
MK # 2	CL of Riverbend Rd.		28.95	95.0
MK # 3	West of mi.marker7	63	32.00	105.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARLR"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="ARHP"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ARPB"/>	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100029A	<b>Date Monumented</b> 9/25/2012	<b>Monumented By</b> AHTD	<b>County</b> Clark	<b>Route</b> 67	<b>Job Number:</b> 070376,070460
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	571,139.7019	0.0020	
<b>Easting (M)</b>	305,041.1451	0.0020	
<b>Elevation (M)*</b>	62.529		
<b>Northing (SFT)</b>	1,873,814.1720		
<b>Easting (SFT)</b>	1,000,789.1569		
<b>Elevation (SFT)*</b>	205.146		

  

<b>Convergence Angle</b>	0	34	36.2308216
<b>Scale Factor</b>	0.999922904		
<b>Elevation Adjust. Factor</b>	0.9999901873		
<b>Combined Adjust. Factor</b>	0.9999130921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	12	19.3419720
<b>Longitude</b>	93	1	49.6038720
<b>Ellipsoid Height:</b>	35.854		
<b>Grid Northing (Meters)</b>	571,139.7053		
<b>Grid Easting (Meters)</b>	305,041.1489		

  

Location Description				
To reach from the Hot Springs and Clark Co. line on hwy.67, Go southwest for .20miles to the station on the right. A standard alum cap stamped 100029A 2012 on a 3.ft 5/8 rebar driven 2" below ground surface. Lat-034.12.19 Long-093.01.49				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North of CL of hwy.67		12.50	41.0
<b>MK # 2</b>	South of 3 strand barb Fence		11.28	37.0
<b>MK # 3</b>	Power Pole	62	24.69	81.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARPB	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100030	<b>Date Monumented</b> 8/1/2017	<b>Monumented By</b> B&F	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070439, 070442
--------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	562,177.9113	0.0040	
<b>Easting (M)</b>	300,335.5697	0.0040	
<b>Elevation (M)*</b>	90.371		

  

<b>Northing (SFT)</b>	1,844,412.0307		
<b>Easting (SFT)</b>	985,350.9483		
<b>Elevation (SFT)*</b>	296.492		

  

<b>Convergence Angle</b>	0	36	17.0405082
<b>Scale Factor</b>	0.999919691		
<b>Elevation Adjust. Factor</b>	0.9999858180		
<b>Combined Adjust. Factor</b>	0.9999055102		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	7	26.9114196
<b>Longitude</b>	93	4	49.7206308
<b>Ellipsoid Height:</b>	63.554		
<b>Grid Northing (Meters)</b>	562,177.9085		
<b>Grid Easting (Meters)</b>	300,335.5741		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OUACHITA SIGN	182	7.10	23.3
MK # 2	POWER POLE	75	16.67	54.7
MK # 3	CORNER WOODEN FENCE	9	25.79	84.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM (ARCM) <b>Ref Mon # 2</b> ARGS (ARHP) <b>Ref Mon # 3</b> ARHP, ARLR (ARLR, ARRV)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY B&amp;F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 &amp; Y 136 (ORIG. STATIC USED GEOID 12A W/-26.8024m GEOID HT.)</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.8024m GEOID HT.)
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.8024m GEOID HT.)			

  

**Location Description**  
  
 TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN LEFT (NORTH) ONTO 26TH ST. AND GO 0.12 KM (.07 MI) TO THE STATION ON THE LEFT. THE STATION IS SOUTH OF THE ENTRANCE TO "OUACHITA BEHAVIORAL HEALTH & WELLNESS" (205 N. 26TH ST.)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100030A	<b>Date Monumented</b> 8/1/2017	<b>Monumented By</b> B&F	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070439
---------------------------	------------------------------------	-----------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	561,785.8284 0.0030
<b>Easting (M)</b>	300,345.2364 0.0030
<b>Elevation (M)*</b>	80.279
<b>Northing (SFT)</b>	1,843,125.6720
<b>Easting (SFT)</b>	985,382.6631
<b>Elevation (SFT)*</b>	263.383

  

<b>Convergence Angle</b>	0 36 16.7389885
<b>Scale Factor</b>	0.999919596
<b>Elevation Adjust. Factor</b>	0.9999874017
<b>Combined Adjust. Factor</b>	0.9999069988

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 7 14.1896604
<b>Longitude</b>	93 4 49.1820780
<b>Ellipsoid Height (M):</b>	53.472 0.0060
<b>Geoid Height (M):</b>	-26.800 0.0060

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN RIGHT(SOUTH) ONTO 26TH ST. AND GO 0.27 KM (.17 MI) TO THE STATION ON THE LEFT, NORTHEAST CORNER OF 26TH ST. &amp; CLINTON ST. THE STATION IS ON A VACANT LOT.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	STOP SIGN	193	6.49	21.3
<b>MK # 2</b>	POWER POLE	264	23.26	76.3
<b>MK # 3</b>	DISCOUNT TOBACCO SIGN	300	30.48	100.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARLR, ARRV	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100031	<b>Date Monumented</b> 8/1/2017	<b>Monumented By</b> B&F	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070439, 070442
--------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	561,973.1012	0.0020	
<b>Easting (M)</b>	302,630.7840	0.0020	
<b>Elevation (M)*</b>	74.786		

  

<b>Northing (SFT)</b>	1,843,740.0829	
<b>Easting (SFT)</b>	992,881.1638	
<b>Elevation (SFT)*</b>	245.360	

  

<b>Convergence Angle</b>	0	35	26.8619870
<b>Scale Factor</b>	0.999919647		
<b>Elevation Adjust. Factor</b>	0.9999882638		
<b>Combined Adjust. Factor</b>	0.9999079118		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	7	21.0415728
<b>Longitude</b>	93	3	20.0664972
<b>Ellipsoid Height:</b>	48.003		
<b>Grid Northing (Meters)</b>	561,973.1024		
<b>Grid Easting (Meters)</b>	302,630.7913		

  

**Location Description**  
  
 TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST. STATION IS ON THE LEFT AT THE NORTHWEST INTERSECTION OF HWY 51 & N.8TH ST. AT BACK EDGE OF SIDEWALK.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	STOP SIGN	66	2.07	6.8
<b>MK # 2</b>	APEX SIGN	300	4.45	14.6
<b>MK # 3</b>	FIRE HYDRANT	134	18.50	60.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM (ARCM)	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7761m GEIOD HT.)
<b>Ref Mon # 2</b> ARGS (ARHP)	
<b>Ref Mon # 3</b> ARHP, ARLR (ARLR, ARRV)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100031A	<b>Date Monumented</b> 8/1/2017	<b>Monumented By</b> B&F	<b>County</b> CLARK	<b>Route</b> 51	<b>Job Number:</b> 070439, 070442
---------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	561,558.3216	0.0020	
<b>Easting (M)</b>	302,626.7123	0.0020	
<b>Elevation (M)*</b>	74.253		
<b>Northing (SFT)</b>	1,842,379.2601		
<b>Easting (SFT)</b>	992,867.8053		
<b>Elevation (SFT)*</b>	243.613		

  

<b>Convergence Angle</b>	0	35	26.8575019
<b>Scale Factor</b>	0.999919549		
<b>Elevation Adjust. Factor</b>	0.9999883474		
<b>Combined Adjust. Factor</b>	0.9999078973		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	7	7.5782892
<b>Longitude</b>	93	3	20.0582856
<b>Ellipsoid Height:</b>	47.465		
<b>Grid Northing (Meters)</b>	561,558.3198		
<b>Grid Easting (Meters)</b>	302,626.7247		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST., TURN RIGHT(SOUTH) ONTO N.8TH ST. AND GO 0.41 KM (.25 MI) TO THE STATION ON THE LEFT, AT "TOWN HALL" BUILDING IN LAWN(700 CLAY ST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STOP SIGN	333	4.02	13.2
MK # 2	NW BUILDING CORNER	117	25.06	82.2
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARCM (ARCM)</p> <p><b>Ref Mon # 2</b>    ARGS (ARHP)</p> <p><b>Ref Mon # 3</b>    ARHP, ARLR (ARLR, ARRV)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY B&amp;F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 &amp; Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7736m GEIOD HT.)</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100032	<b>Date Monumented</b> 9/25/2017	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 012275
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	569,288.5456	0.0030	
<b>Easting (M)</b>	301,209.0218	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,867,740.8367		
<b>Easting (SFT)</b>	988,216.5990		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	35	59.5886415
<b>Scale Factor</b>	0.999922064		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SS MANHOLE	102	13.26	43.5
MK # 2	SW CORNER OF HOUSE	29	32.31	106.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARLR	
Ref Mon # 3    ARHP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34   11   17.9857104
<b>Longitude</b>	93   4   18.5395332
<b>Ellipsoid Height (M):</b>	40.474   0.0070
<b>Geoid Height (M):</b>	-26.843   0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND I 30, IN CADDO VALLEY, GO NORTH ON HIGHWAY 7 FOR 0.25 MILES TO THE MARK ON THE RIGHT, EAST 37' OF THE C/L OF THE HIGHWAY AND NORTH 79' OF THE C/L FROST ROAD AND 105' SOUTH OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100032 ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100032A	<b>Date Monumented</b> 9/25/2017	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 012275, 070509
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 569,762.5180	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid 12B
<b>Easting (M)</b> 301,029.7623	<b>0.0030</b>	<b>Latitude</b> 34 11 33.3074472
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 4 25.7346444
<b>Northing (SFT)</b> 1,869,295.8611		<b>Ellipsoid Height (M):</b> 43.796 0.0070
<b>Easting (SFT)</b> 987,628.4785		<b>Geoid Height (M):</b> -26.846 0.0070
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 36 3.6156782	<b>Scale Factor</b> 0.999922265	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND I 30, IN CADDO VALLEY, GO NORTH ON HIGHWAY 7 FOR 0.5 MILES TO THE MARK ON THE RIGHT, EAST 25' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100032A ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> NAD 83 (1997)	<b>Latitude</b> 34 11 33.3074472	<b>Longitude</b> 93 4 25.7346444	<b>Ellipsoid Height:</b> 43.796
<b>Grid Northing (Meters)</b> 569,762.5180			
<b>Grid Easting (Meters)</b> 301,029.7623			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MKR	114	14.90	48.9
MK # 2	COMBINATION POLE	5	35.35	116.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARCM	OLD REFERENCE MARKS FOR SUPERCEDED POSITION WERE ARCM, ARLR & ARHP. OLD GEOID HT. -26.846m FROM GEOID 12 B.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARHP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100033	<b>Date Monumented</b> 9/25/2017	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 012275
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	571,834.9248	0.0030			
<b>Easting (M)</b>	300,401.4086	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,876,095.0824				
<b>Easting (SFT)</b>	985,566.9547				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	17.8296102
<b>Scale Factor</b>	0.999923212		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN	68	5.30	17.4
MK # 2	UNDERGROUND CABLE MKR	60	16.15	53.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARLR	
Ref Mon # 3    ARHP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34   12   40.3523064
<b>Longitude</b>	93   4   51.1306932
<b>Ellipsoid Height (M):</b>	90.667   0.0070
<b>Geoid Height (M):</b>	-26.860   0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND 283, NORTH OF CADDO VALLEY, GO SOUTH ON HIGHWAY 7 FOR 0.3 MILES TO THE MARK ON THE LEFT, NORTHEAST 10' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100033 ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100033A	<b>Date Monumented</b> 9/25/2017	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 7	<b>Job Number:</b> 012275
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	572,195.1991	0.0030	
<b>Easting (M)</b>	300,136.7389	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,877,277.0824		
<b>Easting (SFT)</b>	984,698.6175		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	36	23.6998631
<b>Scale Factor</b>	0.999923386		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OF SIGN	170	25.15	82.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARLR	
Ref Mon # 3    ARHP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34   12   51.9540696
<b>Longitude</b>	93   5   1.6190808
<b>Ellipsoid Height (M):</b>	112.483   0.0070
<b>Geoid Height (M):</b>	-26.865   0.0070

**Location Description**

THE STATION MARK IS AT THE JUNCTION OF STATE HIGHWAY 7 AND 283, NORTH OF CADDO VALLEY, 38' WEST OF THE C/L OF HIGHWAY 7 AND 28' EAST OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100033A ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100034	<b>Date Monumented</b> 3/19/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> I-30	<b>Job Number:</b> 070513
--------------------------	-------------------------------------	-------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	538,340.2673	0.0020	
<b>Easting (M)</b>	280,510.9078	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,766,204.6936		
<b>Easting (SFT)</b>	920,309.5367		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	43	23.4703619
<b>Scale Factor</b>	0.999920923		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
Exit 65 Intersection of highway 53 & I-30 8.9 miles. 45' NW of fence 15' to EP			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	South corner of billboard	280			100034A	
MK # 2	To closest powerpole	146				
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARCM	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP
Ref Mon # 2    ARDQ	
Ref Mon # 3    ARGS, ARHP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100034A	<b>Date Monumented</b> 3/19/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> I-30	<b>Job Number:</b> 070513
---------------------------	-------------------------------------	-------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	538,030.4164	0.0020	
<b>Easting (M)</b>	280,241.7422	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,765,188.1245		
<b>Easting (SFT)</b>	919,426.4492		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	43	29.2490140
<b>Scale Factor</b>	0.999921033		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	8" pine	213		
<b>MK # 2</b>	RW Marker	58		
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP
<b>Ref Mon # 2</b> ARDQ	
<b>Ref Mon # 3</b> ARGS, ARHP	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    54    15.6254508
<b>Longitude</b>	93    17    41.9482428
<b>Ellipsoid Height (M):</b>	47.925    0.0110
<b>Geoid Height (M):</b>	-26.829    0.0110

  

Location Description
2.1 Miles from intersection of HWY67/HWY51 on East bound on-ramp, stationed on the left 55' S of I-30 shoulder, 66' S of I-30 EP, 60" West of Center of On-Ramp

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100035	<b>Date Monumented</b> 7/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070442
--------------------------	------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	560,390.9346 0.0010
<b>Easting (M)</b>	302,207.1326 0.0020
<b>Elevation (M)*</b>	56.257
<b>Northing (SFT)</b>	1,838,549.2579
<b>Easting (SFT)</b>	991,491.2342
<b>Elevation (SFT)*</b>	184.570

  

<b>Convergence Angle</b>	0 35 35.7574267
<b>Scale Factor</b>	0.999919295
<b>Elevation Adjust. Factor</b>	0.9999911715
<b>Combined Adjust. Factor</b>	0.9999104672

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/GUY	280	12.59	41.3
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.
<b>Ref Mon # 2</b> ARGS	
<b>Ref Mon # 3</b> ARHP, ARLR	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 18	<b>Latitude</b> 34 6 29.5496064
<b>Longitude</b> 93 3 35.9602740	<b>Ellipsoid Height (M):</b> 29.447 0.0040
<b>Geoid Height (M):</b> -26.796 0.0040	

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67S, 51N AND 7S, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 67 FOR 1.05 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 24.5' AND NORTHEAST 56' OF THE C/L OF SIPLAST ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100035" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100035A	<b>Date Monumented</b> 7/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070442
---------------------------	------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	560,031.0099	0.0020			
<b>Easting (M)</b>	301,865.1456	0.0020			
<b>Elevation (M)*</b>	55.869				
<b>Northing (SFT)</b>	1,837,368.4050				
<b>Easting (SFT)</b>	990,369.2319				
<b>Elevation (SFT)*</b>	183.296				

  

<b>Convergence Angle</b>	0	35	43.1440791
<b>Scale Factor</b>	0.999919224		
<b>Elevation Adjust. Factor</b>	0.9999912325		
<b>Combined Adjust. Factor</b>	0.9999104572		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	320	18.38	60.3
MK # 2	COMBINATION POLE	318	6.83	22.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARHP, ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100036	<b>Date Monumented</b> 7/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> N/A	<b>Job Number:</b> 070442
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	560,690.5206	0.0020	
<b>Easting (M)</b>	300,262.6348	0.0020	
<b>Elevation (M)*</b>	85.804		
<b>Northing (SFT)</b>	1,839,532.1497		
<b>Easting (SFT)</b>	985,111.6610		
<b>Elevation (SFT)*</b>	281.509		

  

<b>Convergence Angle</b>	0	36	18.2904530
<b>Scale Factor</b>	0.999919353		
<b>Elevation Adjust. Factor</b>	0.9999865347		
<b>Combined Adjust. Factor</b>	0.9999058888		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	150	12.74	41.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARHP, ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 100036A	<b>Date Monumented</b> 7/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLARK	<b>Route</b> N/A	<b>Job Number:</b> 070442
---------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	560,380.9062	0.0020	
<b>Easting (M)</b>	300,503.7267	0.0020	
<b>Elevation (M)*</b>	62.461		
<b>Northing (SFT)</b>	1,838,516.3564		
<b>Easting (SFT)</b>	985,902.6433		
<b>Elevation (SFT)*</b>	204.923		

  

<b>Convergence Angle</b>	0	36	12.9540988
<b>Scale Factor</b>	0.999919290		
<b>Elevation Adjust. Factor</b>	0.9999901980		
<b>Combined Adjust. Factor</b>	0.9999094888		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	315	12.83	42.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARHP, ARLR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    6    28.6466832
<b>Longitude</b>	93    4    42.4196112
<b>Ellipsoid Height (M):</b>	35.670    0.0060
<b>Geoid Height (M):</b>	-26.817    0.0060

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND STATE HIGHWAY 51, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 51 0.8 MILES TO 26th STREET AND TURN RIGHT AND GO 0.8 MILES TO WILLOWBROOK STREET AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, 45.7' SOUTH OF THE C/L OF THE STREET AND 114.4' WEST OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 10015	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 79	<b>Job Number:</b> 20630
-------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 597,603.1388	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 434,544.7392	<b>0.0020</b>	<b>Latitude</b> 34 26 51.6812640
<b>Elevation (M)*</b> 59.993		<b>Longitude</b> 91 37 26.6605320
<b>Northing (SFT)</b> 1,960,636.2979		<b>Ellipsoid Height (M):</b> 33.493 0.0080
<b>Easting (SFT)</b> 1,425,668.8652		<b>Geoid Height (M):</b> -26.500
<b>Elevation (SFT)*</b> 196.828		

  

<b>Convergence Angle</b> 0 12 37.4514964	<b>Scale Factor</b> 0.999944408	<b>Location Description</b> From the intersection of Hwy. 79 and Goldman Sunshine Rd., go South 1.0 mile to the station on the left at the intersection of Roth Prairie Rd. and Goldman Loop, 27' NW of witness post, 19' S. of CL 343/Goldman Sunshine Rd., 39' E of CL Roth Prairie Rd.
<b>Elevation Adjust. Factor</b> 0.9999905852	<b>Combined Adjust. Factor</b> 0.9999349937	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	WITNESS POST		3.66	12.0	010015A
<b>MK # 2</b>	CENTER OF gOLDMAN IOOP		4.42	14.5	
<b>MK # 3</b>	CL of Roth Prairie Rd.		11.87	39.0	

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY	<b>Comments</b> Elev. based on static GPS constraining Ortho. ht. at ARPB.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 11 DWB 1967	<b>Date Monumented</b> 9/13/1995	<b>Monumented By</b> USC&GS	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040226
-------------------------------	-------------------------------------	--------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	134,609.9300	
<b>Easting (M)</b>	186,219.1990	
<b>Elevation (M)*</b>	276.268	
<b>Northing (SFT)</b>	441,632.7453	
<b>Easting (SFT)</b>	610,954.1554	
<b>Elevation (SFT)*</b>	906.389	

  

<b>Convergence Angle</b>	-1	22	18.1822164
<b>Scale Factor</b>	0.999936492		
<b>Elevation Adjust. Factor</b>	0.9999566464		
<b>Combined Adjust. Factor</b>	0.9998931412		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 7.017 KM (4.36 MILES) TO THE STATION ON THE RIGHT JUST NORTH OF THE SMALL TOWN OF FIGURE FIVE. THE STATION IS 25.75 METERS SOUTHEAST OF A GRAVEL DRIVE, 13.10 METERS NORTHWEST OF A GRAVEL DRIVE, 11.54 METERS NORTH-NORTHWEST OF THE CENTER OF HWY. 59, 0.45 METERS NORTH OF A WITNESS POST, 0.35 METERS SOUTH OF A CHAIN LINK FENCE SURROUNDING A USED CAR LOT AND 0.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "11 DWB 1967 906". THIS STATION IS A USC&amp;GS BENCH MARK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	292	13.50	44.3
MK # 2	TELEPHONE POLE	86	0.45	1.5
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 92170001</p> <p>Ref Mon # 2: FORT SMITH GIS NO. 103</p> <p>Ref Mon # 3: GRASSY OFFSET</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 11 DWB AZ	<b>Date Monumented</b> 9/13/1995	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040226
-----------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	134,406.4061		
<b>Easting (M)</b>	186,413.0370		
<b>Elevation (M)*</b>	276.482		
<b>Northing (SFT)</b>	440,965.0173		
<b>Easting (SFT)</b>	611,590.1056		
<b>Elevation (SFT)*</b>	907.091		

  

<b>Convergence Angle</b>	-1	22	13.5939790
<b>Scale Factor</b>	0.999936526		
<b>Elevation Adjust. Factor</b>	0.9999566128		
<b>Combined Adjust. Factor</b>	0.9998931416		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	310	17.00	55.8
<b>MK # 2</b>	COMBINATION POLE	234	22.10	72.5
<b>MK # 3</b>	POWER POLE	82	5.80	19.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 92170001	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "11 DWB 1967".
<b>Ref Mon # 2</b> FORT SMITH GIS NO. 103	
<b>Ref Mon # 3</b> GRASSY OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110001	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084, 050324
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	234,311.9065    0.0020
<b>Easting (M)</b>	544,303.4607    0.0030
<b>Elevation (M)*</b>	91.219    0.0011
<b>Northing (SFT)</b>	768,738.3132
<b>Easting (SFT)</b>	1,785,768.9373
<b>Elevation (SFT)*</b>	299.273

  

<b>Convergence Angle</b>	0   56   11.2952013
<b>Scale Factor</b>	1.000045997
<b>Elevation Adjust. Factor</b>	0.9999856850
<b>Combined Adjust. Factor</b>	1.0000316814

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36   26	4.6494132	
<b>Longitude</b>	90   23	26.3954148	
<b>Ellipsoid Height:</b>	61.810		
<b>Grid Northing (Meters)</b>	234,312.1501		
<b>Grid Easting (Meters)</b>	544,303.3820		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	193	3.10	10.2
<b>MK # 2</b>	COMBINATION POLE	261	19.50	64.0
<b>MK # 3</b>	POWER POLE	22	17.40	57.1

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>  <b>Ref Mon # 1</b> CORNPORT <b>Ref Mon # 2</b> HOPEWELL <b>Ref Mon # 3</b> NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by static GPS by crew S5113 in August 2016 for job 050324</td> </tr> </table>	Comments	Elevation by static GPS by crew S5113 in August 2016 for job 050324
Comments			
Elevation by static GPS by crew S5113 in August 2016 for job 050324			

  

Location Description	
THE STATION IS AT THE POST OFFICE IN THE TOWN OF McDOUGAL, 15.7 METERS NORTH OF THE CENTERLINE OF HWY. 62, 12.4 METERS WEST OF THE DRIVEWAY ENTRANCE TO THE POST OFFICE, 24.10 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF THE POST OFFICE BUILDING, 19.95 METERS WEST OF THE SOUTHWEST CORNER OF A SHEET METAL BUILDING AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110002	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,303.4931	
<b>Easting (M)</b>	549,106.8400	
<b>Elevation (M)*</b>	96.646	
<b>Northing (SFT)</b>	768,710.7103	
<b>Easting (SFT)</b>	1,801,528.0242	
<b>Elevation (SFT)*</b>	317.079	

  

<b>Convergence Angle</b>	0	58	3.4900235
<b>Scale Factor</b>	1.000045791		
<b>Elevation Adjust. Factor</b>	0.9999848333		
<b>Combined Adjust. Factor</b>	1.0000306236		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE POST OFFICE IN McDOUGAL, GO EAST ON HWY. 62 FOR 4.950 KM (3.08 MILES) TO THE STATION ON THE LEFT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 16.10 METERS NORTH OF THE CENTERLINE OF HWY. 62 AND 1.39 METERS SOUTH OF A WITNESS POST AND A POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CORNPORT</p> <p>Ref Mon # 2: HOPEWELL</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: R00119 and R00125</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110003	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	233,918.4261		
<b>Easting (M)</b>	554,140.6710		
<b>Elevation (M)*</b>	100.587		
<b>Northing (SFT)</b>	767,447.3696		
<b>Easting (SFT)</b>	1,818,043.1848		
<b>Elevation (SFT)*</b>	330.009		

  

<b>Convergence Angle</b>	1	0	0.9117360
<b>Scale Factor</b>	1.000044693		
<b>Elevation Adjust. Factor</b>	0.9999842149		
<b>Combined Adjust. Factor</b>	1.0000289072		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF A 36" CONCRETE PIPE	252	13.40	44.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CORNPORT	Cross Reference Job: R00119 and R00125
<b>Ref Mon # 2</b> HOPEWELL	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110003A	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	233,880.8321	
<b>Easting (M)</b>	554,584.0870	
<b>Elevation (M)*</b>	101.435	
<b>Northing (SFT)</b>	767,324.0300	
<b>Easting (SFT)</b>	1,819,497.9588	
<b>Elevation (SFT)*</b>	332.791	

  

<b>Convergence Angle</b>	1	0	11.2529799
<b>Scale Factor</b>	1.000044588		
<b>Elevation Adjust. Factor</b>	0.9999840818		
<b>Combined Adjust. Factor</b>	1.0000286691		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A 24" CONCRETE PIPE	356	6.40	21.0
MK # 2	TELEPHONE JUNCTION BOX	82	1.85	6.1
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 CORNPORT	Cross Reference Job: R00119 and R00125
Ref Mon # 2 HOPEWELL	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110004	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 233,688.5371		<b>Latitude</b> 36 25 36.8750928
<b>Easting (M)</b> 557,897.7440		<b>Longitude</b> 90 14 21.1574220
<b>Elevation (M)*</b> 128.885		<b>Ellipsoid Height (M):</b> 99.501
<b>Northing (SFT)</b> 766,693.1421		<b>Geoid Height (M):</b> -29.384
<b>Easting (SFT)</b> 1,830,369.5151		
<b>Elevation (SFT)*</b> 422.850		

  

<b>Convergence Angle</b>	1	1	28.5669689
<b>Scale Factor</b>	1.000044006		
<b>Elevation Adjust. Factor</b>	0.9999797741		
<b>Combined Adjust. Factor</b>	1.0000237793		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CORNPORT	Cross Reference Job: R00119 and R00125
<b>Ref Mon # 2</b> HOPEWELL	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110005	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 230,878.2941		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 560,549.2730		<b>Latitude</b> 36 24 4.1724396
<b>Elevation (M)*</b> 113.240		<b>Longitude</b> 90 12 36.7848936
<b>Northing (SFT)</b> 757,473.2032		<b>Ellipsoid Height (M):</b> 83.887
<b>Easting (SFT)</b> 1,839,068.7398		<b>Geoid Height (M):</b> -29.353
<b>Elevation (SFT)*</b> 371.522		

  

<b>Convergence Angle</b> 1 2 29.3012522	<b>Location Description</b>  FROM THE POST OFFICE IN POLLARD, GO WEST ON HWY. 62 FOR 3.058 KM (1.90 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS SOUTH OF THE CENTERLINE OF HWY. 62 AND 0.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 1.000037491	
<b>Elevation Adjust. Factor</b> 0.9999822293	
<b>Combined Adjust. Factor</b> 1.0000197196	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	328	11.30	37.1		Q 189 BM
MK # 2	4" PEACH TREE	265	22.60	74.1		138 31 25.69054
MK # 3	NONE					137 28 56.48401

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORNPORT	Cross Reference Job: R00119 and R00125
Ref Mon # 2 HOPEWELL	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110006	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,295.7680	
<b>Easting (M)</b>	553,422.4130	
<b>Elevation (M)*</b>	86.708	
<b>Northing (SFT)</b>	706,349.5322	
<b>Easting (SFT)</b>	1,815,686.7000	
<b>Elevation (SFT)*</b>	284.474	

  

<b>Convergence Angle</b>	0	59	36.5928545
<b>Scale Factor</b>	1.000005775		
<b>Elevation Adjust. Factor</b>	0.9999863929		
<b>Combined Adjust. Factor</b>	0.9999921678		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	183	13.49	44.3
<b>MK # 2</b>	RAILROAD CROSSING SWITCH STAND	340	8.81	28.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> POCAPORT	Elevation by 3-wire from NGS Point Z 187
<b>Ref Mon # 2</b> KENNPORT	
<b>Ref Mon # 3</b> AHTD PAR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110006A	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,629.2460	
<b>Easting (M)</b>	553,400.7010	
<b>Elevation (M)*</b>	90.829	
<b>Northing (SFT)</b>	707,443.6179	
<b>Easting (SFT)</b>	1,815,615.4665	
<b>Elevation (SFT)*</b>	297.995	

  

<b>Convergence Angle</b>	0	59	36.2215782
<b>Scale Factor</b>	1.000006398		
<b>Elevation Adjust. Factor</b>	0.9999857462		
<b>Combined Adjust. Factor</b>	0.9999921441		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.20 METERS NORTH OF THE CENTER OF 3RD STREET, 9.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 90 (MAIN STREET), 5.55 METERS SOUTH OF THE CENTER OF A CONCRETE ENTRANCE TO A PAVED PARKING LOT, 0.90 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 0.83 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 334.184 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	LIGHT POLE	180	19.50	64.0		110006
MK # 2	NONE					177 16 05.47746
MK # 3	NONE					176 16 29.25896

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 POCAPORT	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 AHTD PAR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110007	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,692.4920	
<b>Easting (M)</b>	553,324.2600	
<b>Elevation (M)*</b>	113.457	
<b>Northing (SFT)</b>	724,055.2842	
<b>Easting (SFT)</b>	1,815,364.6764	
<b>Elevation (SFT)*</b>	372.234	

  

<b>Convergence Angle</b>	0	59	36.4863803
<b>Scale Factor</b>	1.000016178		
<b>Elevation Adjust. Factor</b>	0.9999821952		
<b>Combined Adjust. Factor</b>	0.9999983729		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 5.76 KM (3.58 MI) TO THE STATION ON THE LEFT. THE STATION IS 58.011 METERS SOUTHEAST OF THE CENTER OF A CONCRETE HEADWALL, 42.85 METERS WEST-NORTHWEST OF THE JUNCTION OF STATE HIGHWAY 90 AND COUNTY ROAD 475, 8.76 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.617 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHERN MOST ONE OF THREE WATER METERS	275	5.48	18.0	
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: POCAPORT</p> <p>Ref Mon # 2: KENNPORT</p> <p>Ref Mon # 3: AHTD PAR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110007A	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,026.8791	
<b>Easting (M)</b>	552,873.0380	
<b>Elevation (M)*</b>	113.162	
<b>Northing (SFT)</b>	725,152.3525	
<b>Easting (SFT)</b>	1,813,884.2922	
<b>Elevation (SFT)*</b>	371.266	

  

<b>Convergence Angle</b>	0	59	26.0979858
<b>Scale Factor</b>	1.000016862		
<b>Elevation Adjust. Factor</b>	0.9999822415		
<b>Combined Adjust. Factor</b>	0.9999991032		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 6.33 KM (3.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.60 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 90 AND 3.32 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "110007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVER FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.617 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	312	14.55	47.7
MK # 2	MOST WESTERLY IN LINE BRACE POST	84	5.30	17.4
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="POCAPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="KENNPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="AHTD PAR 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110008A	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	221,409.3381	
<b>Easting (M)</b>	549,385.8230	
<b>Elevation (M)*</b>	120.541	
<b>Northing (SFT)</b>	726,407.1367	
<b>Easting (SFT)</b>	1,802,443.3210	
<b>Elevation (SFT)*</b>	395.475	

  

<b>Convergence Angle</b>	0	58	4.9174496
<b>Scale Factor</b>	1.000017750		
<b>Elevation Adjust. Factor</b>	0.9999810835		
<b>Combined Adjust. Factor</b>	0.9999988332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	25.68	84.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="POCAPORT"/> <b>Ref Mon # 2</b> <input type="text" value="KENNPORT"/> <b>Ref Mon # 3</b> <input type="text" value="AHTD PAR 1"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 19 3.3823704
<b>Longitude</b>	90 20 11.1313428
<b>Ellipsoid Height (M):</b>	92.086
<b>Geoid Height (M):</b>	-28.455

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 9.90 KM (6.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.50 METERS WEST OF THE EXTENDED CENTER OF A GRAVEL DRIVEWAY, 9.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 595.646 METERS.</p>

<b>AZ Mark Station</b>	110008
<b>Geodetic Azimuth</b>	88 40 50.111831
<b>Grid Azimuth</b>	87 42 45.318074



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110009	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,145.3711	
<b>Easting (M)</b>	544,682.4060	
<b>Elevation (M)*</b>	102.186	
<b>Northing (SFT)</b>	732,102.7717	
<b>Easting (SFT)</b>	1,787,012.1937	
<b>Elevation (SFT)*</b>	335.255	

  

<b>Convergence Angle</b>	0	56	15.8774014
<b>Scale Factor</b>	1.000021444		
<b>Elevation Adjust. Factor</b>	0.9999839639		
<b>Combined Adjust. Factor</b>	1.0000054076		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	99	10.63	34.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	110009A
<b>Geodetic Azimuth</b>	272 06 11.59293
<b>Grid Azimuth</b>	271 09 55.59638

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 POCAPORT	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 AHTD PAR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110009A	<b>Date Monumented</b> 7/20/1999	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 90	<b>Job Number:</b> 100394
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,156.7890	
<b>Easting (M)</b>	544,121.1030	
<b>Elevation (M)*</b>	92.865	
<b>Northing (SFT)</b>	732,140.2319	
<b>Easting (SFT)</b>	1,785,170.6521	
<b>Elevation (SFT)*</b>	304.675	

  

<b>Convergence Angle</b>	0	56	2.7871743
<b>Scale Factor</b>	1.000021486		
<b>Elevation Adjust. Factor</b>	0.9999854267		
<b>Combined Adjust. Factor</b>	1.0000069124		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF CMP	260	12.19	40.0
<b>MK # 2</b>	POWER POLE	130	31.49	103.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="POCAPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="KENNPORT"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD PAR 1"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 20 2.9003856
<b>Longitude</b>	90 23 41.0135532
<b>Ellipsoid Height (M):</b>	64.394
<b>Geoid Height (M):</b>	-28.471

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 14.65 KM (9.10 MI) TO THE JUNCTION OF STATE HIGHWAY 141 ON THE RIGHT, CONTINUE WEST ON STATE HIGHWAY 90 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.41 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 9.72 METERS NORTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.410 METERS.</p>

<b>AZ Mark Station</b>	110009
<b>Geodetic Azimuth</b>	92 05 58.264405
<b>Grid Azimuth</b>	91 09 55.596379

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110010	<b>Date Monumented</b> 1/6/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> CR 341	<b>Job Number:</b> 100528
--------------------------	------------------------------------	------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	236,899.6121	
<b>Easting (M)</b>	564,124.5360	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	777,228.1440	
<b>Easting (SFT)</b>	1,850,798.5819	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	3	55.3895911
<b>Scale Factor</b>	1.000051297		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTH 8.50 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	233	25.70	84.3		110010A
MK # 2	TELEPHONE RISER	214	17.50	57.4		268 39 40
MK # 3						267 35 45

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: CNWM	
Ref Mon # 2: AHTD PAR 1	
Ref Mon # 3: BLMM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110010A	<b>Date Monumented</b> 1/6/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> CR 341	<b>Job Number:</b> 100528
---------------------------	------------------------------------	------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	236,877.9181	
<b>Easting (M)</b>	563,607.8400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	777,156.9696	
<b>Easting (SFT)</b>	1,849,103.3884	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	3	43.3084113
<b>Scale Factor</b>	1.000051268		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS EAST 44.7 METERS OF THE JUNCTION OF COUNTY ROAD 341 AND COUNTY ROAD 347 AND SOUTH 6.80 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: CNWM Ref Mon # 2: AHTD PAR 1 Ref Mon # 3: BLMM	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110011	<b>Date Monumented</b> 1/6/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> CR 347	<b>Job Number:</b> 100528
--------------------------	------------------------------------	------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,311.9087	
<b>Easting (M)</b>	544,303.4589	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	768,738.3205	
<b>Easting (SFT)</b>	1,785,768.9314	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	56	11.2951594
<b>Scale Factor</b>	1.000045997		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE APROX PI OF THE CURVE AND SOUTH 6.50 METERS OF THE CENTERLINE OF THE COUNTY ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN TO 0.25 METERS BELOW THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CNWM</p> <p>Ref Mon # 2: AHTD PAR 1</p> <p>Ref Mon # 3: BLMM</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110011A	<b>Date Monumented</b> 1/6/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> CR 347	<b>Job Number:</b> 100528
---------------------------	------------------------------------	------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	240,470.9311	
<b>Easting (M)</b>	564,025.4910	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	788,945.0465	
<b>Easting (SFT)</b>	1,850,473.6317	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	3	54.6269238
<b>Scale Factor</b>	1.000060004		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.75 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTHEAST 4.3 METERS OF THE CENTERLINE OF COUNTY ROAD 347 AND NORTHEAST 8.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN 0.25 METERS BELOW THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	11" PEAR TREE	220	10.70	35.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: CNWM	
Ref Mon # 2: AHTD PAR 1	
Ref Mon # 3: BLMM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110012	<b>Date Monumented</b> 1/20/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> 100528
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	235,245.7041		
<b>Easting (M)</b>	566,132.6460		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	771,801.9475		
<b>Easting (SFT)</b>	1,857,386.8561		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	4	41.5784081
<b>Scale Factor</b>	1.000047286		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF 18" CMP	236	4.00	13.1
<b>MK # 2</b>	FE CORNER	40	2.60	8.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="CNWM"/> <b>Ref Mon # 2</b> <input type="text" value="AHTD PAR 1"/> <b>Ref Mon # 3</b> <input type="text" value="BLMM"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 26 22.4800116
<b>Longitude</b>	90 8 49.4651580
<b>Ellipsoid Height (M):</b>	60.314
<b>Geoid Height (M):</b>	28.614

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.4 MILES TO THE STATION ON THE LEFT, SOUTH 4.30 METERS OF A FARM TURN IN, EAST 4.35 METERS OF THE CENTERLINE OF HIGHWAY 62, AND WEST 1.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110012A	<b>Date Monumented</b> 1/20/2004	<b>Monumented By</b> AHTD	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> 100528
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,489.0691	
<b>Easting (M)</b>	566,112.2410	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	769,319.5542	
<b>Easting (SFT)</b>	1,857,319.9107	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	4	40.7692020
<b>Scale Factor</b>	1.000045516		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A DOUBLE BOX CULVERT	26	9.90	32.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    CNWM Ref Mon # 2    AHTD PAR 1 Ref Mon # 3    BLMM	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 25 57.9511632
<b>Longitude</b>	90 8 50.8557876
<b>Ellipsoid Height (M):</b>	58.786
<b>Geoid Height (M):</b>	28.608

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.8 MILES TO THE STATION ON THE RIGHT, NORTH 5.0 METERS OF A FARM ROAD TURN IN, WEST 16.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST OF A 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	110012
<b>Geodetic Azimuth</b>	2 37 22
<b>Grid Azimuth</b>	1 32 41

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110013	<b>Date Monumented</b> 2/19/2019	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> 101004
--------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	228,854.5808	0.0020	
<b>Easting (M)</b>	565,896.4383	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	750,833.7372		
<b>Easting (SFT)</b>	1,856,611.8980		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	4	33.2571777
<b>Scale Factor</b>	1.000032784		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH HDWL UNDER 62	74	31.09	102.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	
Ref Mon # 2 ARPG	
Ref Mon # 3 MOKE	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36 22 55.3269648
<b>Longitude</b>	90 9 3.7652832
<b>Ellipsoid Height (M):</b>	56.138 0.0090
<b>Geoid Height (M):</b>	-28.609 0.0090

Location Description
<p>THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 1, EAST OF PIGGOTT, SOUTH 26' OF HIGHWAY 62 AND NORTH 43' OF HIGHWAY 1. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110013 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110013A	<b>Date Monumented</b> 2/19/2019	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> 1	<b>Job Number:</b> 101004
---------------------------	-------------------------------------	-------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	228,838.0825    0.0020
<b>Easting (M)</b>	566,314.3478    0.0020
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	750,779.6090
<b>Easting (SFT)</b>	1,857,982.9894
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	1	4	43.0047406
<b>Scale Factor</b>	1.000032730		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16.6 WEST OF WEST END RCP	170	5.06	16.6
<b>MK # 2</b>	FENCE CORNER	233	18.89	62.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MOKE	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36    22    54.5369448
<b>Longitude</b>	90    8    47.0139900
<b>Ellipsoid Height (M):</b>	55.797    0.0090
<b>Geoid Height (M):</b>	-28.608    0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 62, EAST OF PIGGOTT, GO NORTH ON HIGHWAY 1 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 16' OF THE C/L OF THE HIGHWAY AND 20.6' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110013A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110014	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-109	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	222,458.6772	0.0020
<b>Easting (M)</b>	512,997.2578	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	729,849.8434	
<b>Easting (SFT)</b>	1,683,058.5033	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	56.4542458
<b>Scale Factor</b>	1.000020981		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A GATE	210°	1.68	5.5
<b>MK # 2</b>	POWER POLE	70°	41.15	135.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110014A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-109	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	222,462.5381	0.0020	
<b>Easting (M)</b>	513,330.8714	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	729,862.5104		
<b>Easting (SFT)</b>	1,684,153.0339		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	44	4.2384291
<b>Scale Factor</b>	1.000020981		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE / TRANS	55°	49.23	161.5
<b>MK # 2</b>	NW CORNER OF A BUILDING	115°	35.20	115.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 19 54.9247548
<b>Longitude</b>	90 44 15.8474112
<b>Ellipsoid Height (M):</b>	57.702 0.0060
<b>Geoid Height (M):</b>	-28.465 0.0060

  

Location Description
TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 & CR-109(VINEGAR HILL RD) IN REYNO, GO SOUTH ON SR-109 2.0 MILES, THEN TURN LEFT TO STAY ON CR-109 AND GO EAST 0.7 MILES TO STATION ON RIGHT. 15.4' SOUTH OF C/L CR-109. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110014A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110015	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-116	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	224,892.2928	0.0020	
<b>Easting (M)</b>	515,449.8837	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	737,834.1306		
<b>Easting (SFT)</b>	1,691,105.1601		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	44	54.4142067
<b>Scale Factor</b>	1.000025985		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	120	18.75	61.5
<b>MK # 2</b>	WELL HEAD	110	3.93	12.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 21 12.8541384
<b>Longitude</b>	90 42 49.6197900
<b>Ellipsoid Height (M):</b>	59.277 0.0070
<b>Geoid Height (M):</b>	-28.515 0.0070

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF US-67 &amp; US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 3.5 MILES TO CR-116. THEN GO WEST 1.0 MILES TO TO STAY ON CR-116. THEN GO SOUTH 0.5 MILES TO TO STAY ON CR-116. THEN GO WEST 0.7 MILES TO TO STAY ON CR-116 TO STATION ON RIGHT NEXT TO A WELL PUMP. 64' NORTH OF C/L CR-116. 15' EAST OF C/L FARM RD. THE MARK IS A STANDARD 2½" CAP STAMPED "110015 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110015A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-116	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	224,927.7244	0.0020	
<b>Easting (M)</b>	515,937.4425	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	737,950.3758		
<b>Easting (SFT)</b>	1,692,704.7593		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	45	5.8025883
<b>Scale Factor</b>	1.000026046		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE / GUY	320	21.03	69.0
MK # 2	EAST END OF CULVERT	330	5.55	18.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110016	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-125	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	226,964.0772	0.0020	
<b>Easting (M)</b>	518,715.2157	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	744,631.3099		
<b>Easting (SFT)</b>	1,701,818.1702		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	11.2623459
<b>Scale Factor</b>	1.000030322		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	100	24.80	81.4
<b>MK # 2</b>	POWER POLE	210	4.90	16.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110016A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-110	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	227,333.4220	0.0020	
<b>Easting (M)</b>	518,691.3004	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	745,843.0687		
<b>Easting (SFT)</b>	1,701,739.7081		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	10.8199519
<b>Scale Factor</b>	1.000031124		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SERVICE POLE	340	5.20	17.1
<b>MK # 2</b>	POWER POLE	65	16.00	52.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110017	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> N/A	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	228,995.1023	0.0020	
<b>Easting (M)</b>	521,184.4727	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	751,294.7648		
<b>Easting (SFT)</b>	1,709,919.3908		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	47	9.5473459
<b>Scale Factor</b>	1.000034693		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 4.0 MILES TO CR-131. THEN GO SOUTH 1.0 MILES TO CR-110. THEN GO EAST 0.5 MILES TO A DIRT FARM ROAD. THEN GO SOUTH 0.5 MILES TO STATION ON RIGHT. 15' NORTH OF C/L EAST/WEST FARM ROAD. 13.8' NORTH OF C/L NORTH/SOUTH DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "110017 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    MODP, MOKE	<b>Comments</b> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110017A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> N/A	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	229,000.2562	0.0020
<b>Easting (M)</b>	521,639.5703	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	751,311.6739	
<b>Easting (SFT)</b>	1,711,412.4902	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	20.1737787
<b>Scale Factor</b>	1.000034691		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A CULVERT	90	7.30	24.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110018	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-135	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	232,086.8508	0.0010	
<b>Easting (M)</b>	521,931.5487	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	761,438.2763		
<b>Easting (SFT)</b>	1,712,370.4227		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	47	27.9853709
<b>Scale Factor</b>	1.000041631		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	75	6.61	21.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110018A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> ARM RD	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	232,027.4111	0.0020	
<b>Easting (M)</b>	521,519.0820	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	761,243.2646		
<b>Easting (SFT)</b>	1,711,017.1882		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	47	18.3333996
<b>Scale Factor</b>	1.000041508		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WELL HEAD	85	9.60	31.5
<b>MK # 2</b>	WATER HYDRANT	160	3.28	10.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110019	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> ARM RD	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	233,875.2262	0.0020	
<b>Easting (M)</b>	524,341.1305	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	767,305.6380		
<b>Easting (SFT)</b>	1,720,275.8590		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	48	24.8474362
<b>Scale Factor</b>	1.000045687		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	250	8.08	26.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110019A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> ARM RD	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	234,281.7721	0.0010	
<b>Easting (M)</b>	524,363.8771	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	768,639.4473		
<b>Easting (SFT)</b>	1,720,350.4868		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	48	25.5125490
<b>Scale Factor</b>	1.000046637		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	20	13.26	43.5
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	110019
<b>Geodetic Azimuth</b>	184° 0' 34"
<b>Grid Azimuth</b>	183° 12' 9"

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110020	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> US-67	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	236,057.4197	0.0020	
<b>Easting (M)</b>	526,829.1338	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	774,465.0511		
<b>Easting (SFT)</b>	1,728,438.5831		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	49	23.6965025
<b>Scale Factor</b>	1.000050754		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP CUS	175	25.00	82.0
MK # 2	POWER POLE+TRANS	290	32.92	108.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110020A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> US-67	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	236,375.9033	0.0020	
<b>Easting (M)</b>	526,972.6342	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	775,509.9427		
<b>Easting (SFT)</b>	1,728,909.3840		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	49	27.1563539
<b>Scale Factor</b>	1.000051510		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	255	17.53	57.5
MK # 2	LIGHT POLE	345	13.71	45.0
MK # 3				

  

<b>AZ Mark Station</b>	110020
<b>Geodetic Azimuth</b>	205° 4 ' 45"
<b>Grid Azimuth</b>	204° 15 ' 18"

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110021	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> US-67	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	238,668.5584	0.0010	
<b>Easting (M)</b>	529,365.2261	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	783,031.7620		
<b>Easting (SFT)</b>	1,736,759.0793		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	50	23.8450023
<b>Scale Factor</b>	1.000056980		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	45	21.80	71.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110021A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> US-67	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	239,010.7584	0.0020	
<b>Easting (M)</b>	529,693.7759	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	784,154.4632		
<b>Easting (SFT)</b>	1,737,836.9964		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	50	31.6411346
<b>Scale Factor</b>	1.000057809		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	36" OAK TREE	27	49.07	161.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110022	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-278	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	241,190.0519	0.0020
<b>Easting (M)</b>	530,597.0634	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	791,304.3619	
<b>Easting (SFT)</b>	1,740,800.5322	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	50	53.5068260
<b>Scale Factor</b>	1.000063194		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO WEST ON CR-278 (STATE LINE RD.) 0.2 MILES TO STATION ON RIGHT, NEAR SOUTHWEST CORNER OF A POND. 15.3' NORTH OF C/L CR-278. THE MARK IS A STANDARD 2½" CAP STAMPED "110022 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	105	25.00	82.0
MK # 2	FENCE CORNER	30	7.38	24.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    MODP, MOKE	<b>Comments</b>  STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110022A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> ARDOT	<b>County</b> CLAY	<b>Route</b> CR-278	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	241,185.0402	0.0020	
<b>Easting (M)</b>	530,193.9881	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	791,287.9194		
<b>Easting (SFT)</b>	1,739,478.1093		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	50	44.0821110
<b>Scale Factor</b>	1.000063196		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
110022A TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO WEST ON CR-278 (STATE LINE RD.) 0.4 MILES TO STATION ON RIGHT. 16' NORTH OF C/L CR-278. 82' WEST OF A NORTH FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "110022A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
11B AZ RESET	9/5/1996	AHTD	CONWAY	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	108,783.8451	
<b>Easting (M)</b>	334,095.4480	
<b>Elevation (M)*</b>	185.959	
<b>Northing (SFT)</b>	356,901.6651	
<b>Easting (SFT)</b>	1,096,111.4823	
<b>Elevation (SFT)*</b>	610.100	

  

<b>Convergence Angle</b>	0	25	18.2191430
<b>Scale Factor</b>	0.999947185		
<b>Elevation Adjust. Factor</b>	0.9999708178		
<b>Combined Adjust. Factor</b>	0.9999180044		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	0.080 METER PIPE PROJECTING 0.80 METER	27	4.00	13.1
<b>MK # 2</b>	METAL PIPE FENCE CORNER POST	348	10.45	34.3
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> D 293 <b>Ref Mon # 2</b> P 291 <b>Ref Mon # 3</b> M 49 BM OFFSET	ELEVATION BY 3-WIRE USING U.S.A.F. BM NUMBER 11B AZ MK. ELEVATION = 191.231 METERS.

  

Location Description	
TO REACH THE STATION FROM THE NORTH END OF THE HIGHWAY 95 BRIDGE OVER INTERSTATE 40 GO NORTHERLY ON HWY-95 FOR 14.65 KM. (9.10 MI.) TO THE MAIN CROSSROADS IN THE SMALL TOWN OF ST. VINCENT. CONTINUE AHEAD ( NORTHERLY ) ON HWY-95 FOR 1.21 KM. (0.75 MI.) TO A PAVED ROAD ON THE RIGHT LEADING TO AN OLD U.S. AIR FORCE MISSILE SITE. TURN RIGHT AND GO EASTERLY ON THE PAVED ROAD FOR 0.59 KM. (0.37 MI.) TO A WIRE FENCE CROSSING THE ROAD AND THE STATION ON THE LEFT. 13.35 METERS NORTH OF THE NORTH EDGE OF THE PAVED ROAD, 10.45 METERS SOUTH OF A NORTH-SOUTH, EAST-WEST FENCE CORNER AND 0.60 METERS WEST OF A WITNESS POST SET NEAR A NORTH-SOUTH FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "11B AZ MK RESET 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	NONE
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120001	<b>Date Monumented</b> 5/22/1990	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 5933
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	151,207.2910	
<b>Easting (M)</b>	418,231.3120	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	496,085.9206	
<b>Easting (SFT)</b>	1,372,147.2295	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	7	1.9945560
<b>Scale Factor</b>	0.999937834		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS 54 FEET NORTH OF THE CENTERLINE OF HWY. 25, 32 FEET SOUTH OF SPINKS ROAD AND 1.5 FEET EAST OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	NBC IN 14" PECAN	3	20.75	68.1	
<b>MK # 2</b>	NBC IN TOP OF FENCE CORNER POST	194	6.79	22.3	
<b>MK # 3</b>	NBC IN TOP OF FENCE CORNER POST	316	2.93	9.6	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMOND <b>Ref Mon # 2</b> BATESVILLE <b>Ref Mon # 3</b> SALADO	Old point number 90120001

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120002	<b>Date Monumented</b> 5/31/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 263	<b>Job Number:</b> 050228
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	145,027.8189	
<b>Easting (M)</b>	394,774.2820	
<b>Elevation (M)*</b>	272.586	
<b>Northing (SFT)</b>	475,812.1025	
<b>Easting (SFT)</b>	1,295,188.6235	
<b>Elevation (SFT)*</b>	894.309	

  

<b>Convergence Angle</b>	0	2	0.8744184
<b>Scale Factor</b>	0.999936417		
<b>Elevation Adjust. Factor</b>	0.9999572242		
<b>Combined Adjust. Factor</b>	0.9998936439		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	9.35	30.7
MK # 2	GUY POLE	170	21.30	69.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 38 26.0308716
<b>Longitude</b>	92 3 27.7240068
<b>Ellipsoid Height (M):</b>	244.175
<b>Geoid Height (M):</b>	-28.293

Location Description
FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO. GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120002-1	<b>Date Monumented</b> 5/31/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 263	<b>Job Number:</b> 005914
----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	145,027.4900	
<b>Easting (M)</b>	394,774.2000	
<b>Elevation (M)*</b>	272.468	
<b>Northing (SFT)</b>	475,811.0234	
<b>Easting (SFT)</b>	1,295,188.3545	
<b>Elevation (SFT)*</b>	893.922	

  

<b>Convergence Angle</b>	0	2	0.8763101
<b>Scale Factor</b>	0.999936417		
<b>Elevation Adjust. Factor</b>	0.9999572427		
<b>Combined Adjust. Factor</b>	0.9998936624		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
<p>FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO. GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

<b>Location Reference Marks</b>				
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>	
			<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>	POWER POLE	110	9.35	30.7
<b>MK # 2</b>	GUY POLE	170	21.30	69.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	
<b>Ref Mon # 1</b>	HEBEPOR 1990
<b>Ref Mon # 2</b>	ALMOND 1934
<b>Ref Mon # 3</b>	5 JWO AND 6 JWO (BM'S)

  

<b>Comments</b>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120002A	<b>Date Monumented</b> 5/31/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 263	<b>Job Number:</b> 005914
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	144,963.6109				
<b>Easting (M)</b>	395,023.2260				
<b>Elevation (M)*</b>	262.993				
<b>Northing (SFT)</b>	475,601.4468				
<b>Easting (SFT)</b>	1,296,005.3673				
<b>Elevation (SFT)*</b>	862.836				

  

<b>Convergence Angle</b>	0	1	55.1153453
<b>Scale Factor</b>	0.999936407		
<b>Elevation Adjust. Factor</b>	0.9999587295		
<b>Combined Adjust. Factor</b>	0.9998951392		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	267	3.95	13.0
MK # 2	8" PINE TREE	235	6.55	21.5
MK # 3	18" METAL CULVERT	277	17.35	56.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HEBEPORT 1990	
<b>Ref Mon # 2</b> ALMOND 1934	
<b>Ref Mon # 3</b> 5 JWO AND 6 JWO (BM'S)	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 38 23.9520444
<b>Longitude</b>	92 3 17.8269768
<b>Ellipsoid Height (M):</b>	234.701
<b>Geoid Height (M):</b>	-28.292

Location Description
<p>FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO. GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 ON THE RIGHT, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.265 KM (2.65 MILES) TO THE STATION ON THE RIGHT NEAR A PULL-OFF GOING INTO A CLEARCUT AREA. THE STATION IS 9.90 METERS NORTH OF THE CENTERLINE OF HWY. 263, 8.40 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002A" SET ON TOP OF A 3/4" REBAR 0.601 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120003	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657, 050216, 012227
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	116,697.4642    0.0030
<b>Easting (M)</b>	380,943.8114    0.0030
<b>Elevation (M)*</b>	184.329

  

<b>Northing (SFT)</b>	382,864.9305	
<b>Easting (SFT)</b>	1,249,813.1546	
<b>Elevation (SFT)*</b>	604.753	

  

<b>Convergence Angle</b>	0	7	19.3860843
<b>Scale Factor</b>	0.999941947		
<b>Elevation Adjust. Factor</b>	0.9999710736		
<b>Combined Adjust. Factor</b>	0.9999130223		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	35    23    6.1432224
<b>Longitude</b>	92    12    35.0851608
<b>Ellipsoid Height:</b>	155.947
<b>Grid Northing (Meters)</b>	116,697.9301
<b>Grid Easting (Meters)</b>	380,943.9290

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE LEFT. 10.82 METERS NORTHWEST OF THE CENTER OF HWY-25, 1.40 METERS SOUTHEAST OF A BARBED WIRE FENCE AND 1.14 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120003 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	155	21.20	69.6
MK # 2	GUY POLE	240	9.95	32.6
MK # 3	WOODEN FENCE POST	48	25.65	84.2

  

<b>AZ Mark Station</b>	120003A
<b>Geodetic Azimuth</b>	55 16 14.00639
<b>Grid Azimuth</b>	55 23 33.36393

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARLR, (SC) MAY 1940	PREVIOUS ELEV. (604.7465 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
Ref Mon # 2    ARBT, (SC)92230001	
Ref Mon # 3    P777, (SC)120009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120003A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657, 050216, 012227
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	117,017.4711    0.0030
<b>Easting (M)</b>	381,407.5584    0.0030
<b>Elevation (M)*</b>	189.489

  

<b>Northing (SFT)</b>	383,914.8198	
<b>Easting (SFT)</b>	1,251,334.6312	
<b>Elevation (SFT)*</b>	621.682	

  

<b>Convergence Angle</b>	0	7	8.7086527
<b>Scale Factor</b>	0.999941774		
<b>Elevation Adjust. Factor</b>	0.9999702639		
<b>Combined Adjust. Factor</b>	0.9999120396		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	23	16.5592932
<b>Longitude</b>	92	12	16.7352444
<b>Ellipsoid Height:</b>	161.111		
<b>Grid Northing (Meters)</b>	117,017.9471		
<b>Grid Easting (Meters)</b>	381,407.6920		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 8.80 METERS SOUTHEAST OF THE CENTER OF HWY-25, 37.9 METERS WEST OF THE CENTER OF A PAVED STREET AND 0.50 METERS NORTHWEST OF A WITNESS POST SET IN FRONT OF A TELEPHONE POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	137	0.70	2.3
<b>MK # 2</b>	GAS METER	225	25.68	84.3
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	120003
<b>Geodetic Azimuth</b>	235 16 24.63262
<b>Grid Azimuth</b>	235 23 33.36393

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, (SC) MAY 1940 <b>Ref Mon # 2</b> ARBT, (SC)92230001 <b>Ref Mon # 3</b> P777, (SC)120009	PREVIOUS ELEV. (621.6823 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120004	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657, 012227
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	119,568.6037	0.0030
<b>Easting (M)</b>	385,403.2884	0.0030
<b>Elevation (M)*</b>	179.409	

  

<b>Northing (SFT)</b>	392,284.6606	
<b>Easting (SFT)</b>	1,264,443.9554	
<b>Elevation (SFT)*</b>	588.611	

  

<b>Convergence Angle</b>	0	5	36.6704241
<b>Scale Factor</b>	0.999940483		
<b>Elevation Adjust. Factor</b>	0.9999718457		
<b>Combined Adjust. Factor</b>	0.9999123303		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	24	39.5818128
<b>Longitude</b>	92	9	38.5668864
<b>Ellipsoid Height:</b>	151.067		
<b>Grid Northing (Meters)</b>	119,569.0471		
<b>Grid Easting (Meters)</b>	385,403.4130		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 6.12 KM. (3.80 MI.) TO THE STATION ON THE RIGHT. 18.39 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 1.77 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120004 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16" (0.40 M) PINE TREE	53	35.09	115.1
<b>MK # 2</b>	18" (0.45 M) PINE TREE	240	39.90	130.9
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	120004A
<b>Geodetic Azimuth</b>	52 56 20.01377
<b>Grid Azimuth</b>	53 01 56.66044

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, (SC) MAY 1940 <b>Ref Mon # 2</b> ARBT, (SC) 92230001 <b>Ref Mon # 3</b> P777, (SC) 120009	PREVIOUS ELEVATION (588.6307 SURV. FT.) BY 3-WIRE USING NGS Point F 207 *NOTE: F 207 LATER DESTROYED & NOT FOUND IN 2015. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120005	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657, 012227, 050413
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	121,865.8767 0.0020
<b>Easting (M)</b>	390,026.9512 0.0020
<b>Elevation (M)*</b>	232.804
<b>Northing (SFT)</b>	399,821.6305
<b>Easting (SFT)</b>	1,279,613.4224
<b>Elevation (SFT)*</b>	763.792

  

<b>Convergence Angle</b>	0 3 50.0857195
<b>Scale Factor</b>	0.999939458
<b>Elevation Adjust. Factor</b>	0.9999634668
<b>Combined Adjust. Factor</b>	0.9999029270

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35 25	54.3327204	
<b>Longitude</b>	92 6	35.4006432	
<b>Ellipsoid Height:</b>	204.483		
<b>Grid Northing (Meters)</b>	121,866.3050		
<b>Grid Easting (Meters)</b>	390,027.0570		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	163	0.65	2.1
MK # 2	GUY POLE	262	34.86	114.4
MK # 3	TELEPHONE JUNCTION BOX	347	18.90	62.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR, (SC) MAY 1940 <b>Ref Mon # 2</b> ARBT, (SC)92230001 <b>Ref Mon # 3</b> P777, (SC)120009	<b>Comments</b>  NO RECORD OF HOW PREVIOUS ELEV. (763.8010 SURV. FT.) WAS DERIVED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
---	---

  

**Location Description**  
  
 TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 AND 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS, GO SOUTHWESTERLY ON HWY-25 & 16 FOR 6.92 KM. (4.30 MI.) TO THE STATION ON THE LEFT. 9.50 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.59 METERS NORTH OF A WITNESS POST SET AT THE END OF A WOODEN FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120005A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	121,951.7640	
<b>Easting (M)</b>	390,431.2510	
<b>Elevation (M)*</b>	236.555	
<b>Northing (SFT)</b>	400,103.4124	
<b>Easting (SFT)</b>	1,280,939.8627	
<b>Elevation (SFT)*</b>	776.098	

  

<b>Convergence Angle</b>	0	3	40.7603479
<b>Scale Factor</b>	0.999939422		
<b>Elevation Adjust. Factor</b>	0.9999628782		
<b>Combined Adjust. Factor</b>	0.9999023024		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	25	57.1201500
<b>Longitude</b>	92	6	19.3790664
<b>Ellipsoid Height (M):</b>	208.232		
<b>Geoid Height (M):</b>	-28.323		

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-26/16 &amp; 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 &amp; 16 FOR 6.52 KM. (4.05 MI.) TO THE STATION ON THE LEFT. 11.30 METERS SOUTHEAST OF THE CENTER OF HWY-25 &amp; 16 AND 1.25 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MONUMENT	238	29.85	97.9	
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	56	19.85	65.1	
<b>MK # 3</b>	GUY POLE	305	36.81	120.8	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	MAY 1940
<b>Ref Mon # 2</b>	92230001
<b>Ref Mon # 3</b>	120009

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120006	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	123,699.2280	
<b>Easting (M)</b>	392,239.7220	
<b>Elevation (M)*</b>	249.897	
<b>Northing (SFT)</b>	405,836.5505	
<b>Easting (SFT)</b>	1,286,873.1546	
<b>Elevation (SFT)*</b>	819.870	

  

<b>Convergence Angle</b>	0	2	59.0721873
<b>Scale Factor</b>	0.999938735		
<b>Elevation Adjust. Factor</b>	0.9999607846		
<b>Combined Adjust. Factor</b>	0.9998995220		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 3.70 KM. (2.30 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.35 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-25 & 16 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    MAY 1940 Ref Mon # 2    92230001 Ref Mon # 3    120009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120006A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 001657
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	123,694.2040	
<b>Easting (M)</b>	392,730.3100	
<b>Elevation (M)*</b>	256.087	
<b>Northing (SFT)</b>	405,820.0676	
<b>Easting (SFT)</b>	1,288,482.6921	
<b>Elevation (SFT)*</b>	840.179	

  

<b>Convergence Angle</b>	0	2	47.7515423
<b>Scale Factor</b>	0.999938737		
<b>Elevation Adjust. Factor</b>	0.9999598132		
<b>Combined Adjust. Factor</b>	0.9998985527		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	MAY 1940
<b>Ref Mon # 2</b>	92230001
<b>Ref Mon # 3</b>	120009

  

Comments

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 26 53.7315468
<b>Longitude</b>	92 4 48.2828556
<b>Ellipsoid Height (M):</b>	227.774
<b>Geoid Height (M):</b>	-28.313

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 &amp; 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 &amp; 16 FOR 3.22 KM. (2.0 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.90 METERS NORTH OF THE CENTER OF HWY-25 &amp; 16, 51.70 METERS EAST OF A FIELD ENTRANCE, 48.8 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120007	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 5	<b>Job Number:</b> 001748,050067
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 115,147.5271		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 393,188.3520		<b>Latitude</b> 35 22 16.4076708
<b>Elevation (M)*</b> 230.702		<b>Longitude</b> 92 4 29.8609716
<b>Northing (SFT)</b> 377,779.8452		<b>Ellipsoid Height (M):</b> 202.388
<b>Easting (SFT)</b> 1,289,985.4515		<b>Geoid Height (M):</b> -28.314
<b>Elevation (SFT)*</b> 756.895		

  

<b>Convergence Angle</b> 0 2 37.0318641	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF HWY-5 & 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE RIGHT. 11.60 METERS EAST OF THE CENTER OF HWY-5 AND 1.65 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999942809	
<b>Elevation Adjust. Factor</b> 0.9999637966	
<b>Combined Adjust. Factor</b> 0.9999066077	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	121	1.55	5.1
<b>MK # 2</b>	SOUTHWEST CORNER OF STORM CELLAR	60	21.25	69.7
<b>MK # 3</b>	16" (0.40 M) TREE	8	15.40	50.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> 
<b>Ref Mon # 1</b> 120009	
<b>Ref Mon # 2</b> 730001	
<b>Ref Mon # 3</b> 430001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120007A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	116,002.4980	
<b>Easting (M)</b>	393,313.6470	
<b>Elevation (M)*</b>	240.024	
<b>Northing (SFT)</b>	380,584.8622	
<b>Easting (SFT)</b>	1,290,396.5235	
<b>Elevation (SFT)*</b>	787.479	

  

<b>Convergence Angle</b>	0	2	34.1581166
<b>Scale Factor</b>	0.999942321		
<b>Elevation Adjust. Factor</b>	0.9999623338		
<b>Combined Adjust. Factor</b>	0.9999046570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 &amp; 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 5.55 KM. (3.45 MI.) TO THE STATION ON THE RIGHT. 12.50 METERS EAST OF THE CENTER OF HWY-5 AND 0.63 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	120007
<b>Geodetic Azimuth</b>	188 17 40.01267
<b>Grid Azimuth</b>	188 20 14.17809

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120008	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 5	<b>Job Number:</b> 001748,050067
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	118,718.7631	
<b>Easting (M)</b>	394,680.8110	
<b>Elevation (M)*</b>	267.680	
<b>Northing (SFT)</b>	389,496.4753	
<b>Easting (SFT)</b>	1,294,881.9608	
<b>Elevation (SFT)*</b>	878.213	

  

<b>Convergence Angle</b>	0	2	2.6745369
<b>Scale Factor</b>	0.999940889		
<b>Elevation Adjust. Factor</b>	0.9999579940		
<b>Combined Adjust. Factor</b>	0.9998988855		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS GO SOUTH ON HWY-5 FOR 7.24 KM. (4.50 MI.) TO THE STATION ON THE LEFT. 11.87 METERS SOUTHEAST OF THE CENTER OF HWY-5, 24.87 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 2.40 METERS NORTHWEST OF A WITNESS POST SET NEXT TO A POWER POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	50	29.98	98.4
<b>MK # 2</b>	POWER POLE	136	2.64	8.7
<b>MK # 3</b>	GUY POLE	319	24.59	80.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    120009</p> <p><b>Ref Mon # 2</b>    430001</p> <p><b>Ref Mon # 3</b>    730001</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120008A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 5	<b>Job Number:</b> 001748,050067
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	118,309.0480	
<b>Easting (M)</b>	394,207.8160	
<b>Elevation (M)*</b>	268.201	
<b>Northing (SFT)</b>	388,152.2683	
<b>Easting (SFT)</b>	1,293,330.1430	
<b>Elevation (SFT)*</b>	879.923	

  

<b>Convergence Angle</b>	0	2	13.5769268
<b>Scale Factor</b>	0.999941093		
<b>Elevation Adjust. Factor</b>	0.9999579123		
<b>Combined Adjust. Factor</b>	0.9998990078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	231	10.00	32.8
<b>MK # 2</b>	FENCE CORNER POST	323	1.20	3.9
<b>MK # 3</b>	GUY POLE	288	31.50	103.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 120009	
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 23 59.0211024
<b>Longitude</b>	92 3 49.5534060
<b>Ellipsoid Height (M):</b>	239.890
<b>Geoid Height (M):</b>	-28.311

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS, GO SOUTH ON HWY-5 FOR 7.89 KM. (4.90 MI.) TO THE STATION ON THE RIGHT. 12.10 METERS NORTHWEST OF THE CENTER OF HWY-5 AND 1.05 METERS SOUTHEAST OF A WITNESS POST SET NEXT TO A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120009A	<b>Date Monumented</b> 12/7/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 01657, 050119 ,050118, 01222
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 124,950.1585	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 395,745.5379	<b>0.0030</b>	<b>Latitude</b> 35 27 34.5495348
<b>Elevation (M)*</b> 276.841		<b>Longitude</b> 92 2 48.7363560
<b>Northing (SFT)</b> 409,940.6450		<b>Ellipsoid Height (M):</b> 249.301 0.0030
<b>Easting (SFT)</b> 1,298,375.1523		<b>Geoid Height (M):</b> -27.513 0.0030
<b>Elevation (SFT)*</b> 908.269		

  

<b>Convergence Angle</b>	0	1	38.1875384
<b>Scale Factor</b>	0.999938289		
<b>Elevation Adjust. Factor</b>	0.9999565565		
<b>Combined Adjust. Factor</b>	0.9998948482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	27	34.5631176
<b>Longitude</b>	92	2	48.7330296
<b>Ellipsoid Height:</b>	248.539		
<b>Grid Northing (Meters)</b>	124,950.5770		
<b>Grid Easting (Meters)</b>	395,745.6220		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	95	1.45	4.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, (SC) MAY 1940	PREVIOUS Elevation (908.2692 SURV. FT.) based on 3-wire from NGS Point Y 68 ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
<b>Ref Mon # 2</b> ARBT, (SC)92230001	
<b>Ref Mon # 3</b> P777, (SC)120009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120010	<b>Date Monumented</b> 3/4/2006	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25B	<b>Job Number:</b> 050175
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,727.5180	
<b>Easting (M)</b>	397,341.6000	
<b>Elevation (M)*</b>	173.602	
<b>Northing (SFT)</b>	428,895.1986	
<b>Easting (SFT)</b>	1,303,611.5660	
<b>Elevation (SFT)*</b>	569.561	

  

<b>Convergence Angle</b>	0	1	1.3921563
<b>Scale Factor</b>	0.999936733		
<b>Elevation Adjust. Factor</b>	0.9999727569		
<b>Combined Adjust. Factor</b>	0.9999094916		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	349	16.37	53.7
<b>MK # 2</b>	MAN HOLE	336	11.13	36.5
<b>MK # 3</b>	8" PIPE FLUSH WITH ASPH.	247	6.22	20.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> HEBEPORT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	<b>Comments</b> 3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
---	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25B AND STATE HIGHWAY 110, IN HEBER SPRINGS, GO NORTH ON 25B FOR 1.30 MILES TO THE STATION ON THE LEFT, NORTH 32.0 FEET OF AN ASPH. DRIVE, 26.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND EAS	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	30	42.0404004
<b>Longitude</b>	92	1	45.5030904
<b>Ellipsoid Height (M):</b>	146.178		
<b>Geoid Height (M):</b>	-27.424		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120010A	<b>Date Monumented</b> 3/4/2006	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25B	<b>Job Number:</b> 050175
---------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,238.7871	
<b>Easting (M)</b>	397,327.2160	
<b>Elevation (M)*</b>	173.333	
<b>Northing (SFT)</b>	427,291.7540	
<b>Easting (SFT)</b>	1,303,564.3745	
<b>Elevation (SFT)*</b>	568.676	

  

<b>Convergence Angle</b>	0	1	1.7209577
<b>Scale Factor</b>	0.999936833		
<b>Elevation Adjust. Factor</b>	0.9999727992		
<b>Combined Adjust. Factor</b>	0.9999096339		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PAY PHONE	302	3.75	12.3
<b>MK # 2</b>	LIGHT POLE	183	22.86	75.0
<b>MK # 3</b>	LIGHT POLE	350	26.40	86.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HEBEPORT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120011	<b>Date Monumented</b> 3/4/2006	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 110	<b>Job Number:</b> 050175
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 128,932.5440		<b>Latitude</b> 35 29 43.8075852
<b>Easting (M)</b> 399,607.6380		<b>Longitude</b> 92 0 15.5684196
<b>Elevation (M)*</b> 86.301		<b>Ellipsoid Height (M):</b> 58.877
<b>Northing (SFT)</b> 423,006.1881		<b>Geoid Height (M):</b> -27.413
<b>Easting (SFT)</b> 1,311,046.0590		
<b>Elevation (SFT)*</b> 283.141		

  

<b>Convergence Angle</b> 0 0 9.0592498	<b>Location Description</b>
<b>Scale Factor</b> 0.999937129	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE 110 STATE HIGHWAY 25, SOUTHEAST OF HEBER SPRINGS, GO WEST ON HIGHWAY 110 0.40 MILES TO THE STATION MARK ON THE LEFT, EAST OF A GRAVEK DRIVE 39.7 FEET, WEST 55.5 FEET OF A GRAVEL DRIVE, SOUTH 29.4 FEET O</p>
<b>Elevation Adjust. Factor</b> 0.9999864567	
<b>Combined Adjust. Factor</b> 0.9999235865	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" ELM	197	11.58	38.0
MK # 2	GAS METER	347	21.21	69.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HEBEPOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	HEBEPOR	Ref Mon # 2	ARHR	Ref Mon # 3	ARLR	<b>Comments</b> 3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
Ref Mon # 1	HEBEPOR						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARLR						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120011A	<b>Date Monumented</b> 3/4/2006	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 110	<b>Job Number:</b> 050175
---------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	128,898.3500	
<b>Easting (M)</b>	399,070.9590	
<b>Elevation (M)*</b>	88.033	
<b>Northing (SFT)</b>	422,894.0033	
<b>Easting (SFT)</b>	1,309,285.3047	
<b>Elevation (SFT)*</b>	288.822	

  

<b>Convergence Angle</b>	0	0	21.4505555
<b>Scale Factor</b>	0.999937137		
<b>Elevation Adjust. Factor</b>	0.9999861849		
<b>Combined Adjust. Factor</b>	0.9999233228		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	80	28.65	94.0
<b>MK # 2</b>	16" PINE	58	27.07	88.8
<b>MK # 3</b>	SOUTHEAST CORNER ASPH. LOT	281	14.97	49.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HEBEPOR"/>	3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
<b>Ref Mon # 2</b> <input type="text" value="ARHR"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARLR"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120012	<b>Date Monumented</b> 4/28/2010	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 225	<b>Job Number:</b> 050228
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	140,598.9057	
<b>Easting (M)</b>	388,307.1784	
<b>Elevation (M)*</b>	187.632	
<b>Northing (SFT)</b>	461,281.5765	
<b>Easting (SFT)</b>	1,273,971.1345	
<b>Elevation (SFT)*</b>	615.589	

  

<b>Convergence Angle</b>	0	4	30.3285428
<b>Scale Factor</b>	0.999935976		
<b>Elevation Adjust. Factor</b>	0.9999705553		
<b>Combined Adjust. Factor</b>	0.9999065332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	30	16.46	54.0
<b>MK # 2</b>	COMBINATION POLE	7	29.41	96.5
<b>MK # 3</b>	12" RED OAK	111	17.13	56.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.</td> </tr> </table>	Comments	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.
Comments			
ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120012A	<b>Date Monumented</b> 4/28/2010	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 225	<b>Job Number:</b> 050228
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	140,018.7930	
<b>Easting (M)</b>	388,389.7260	
<b>Elevation (M)*</b>	193.415	
<b>Northing (SFT)</b>	459,378.3234	
<b>Easting (SFT)</b>	1,274,241.9594	
<b>Elevation (SFT)*</b>	634.562	

  

<b>Convergence Angle</b>	0	4	28.4026612
<b>Scale Factor</b>	0.999935954		
<b>Elevation Adjust. Factor</b>	0.9999696478		
<b>Combined Adjust. Factor</b>	0.9999056037		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY	7	15.42	50.6
<b>MK # 2</b>	FIRE HYDRANT	113	11.46	37.6
<b>MK # 3</b>	EAST END 30" RCP	178	24.38	80.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.   

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120013	<b>Date Monumented</b> 4/28/2010	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 225	<b>Job Number:</b> 050228
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,761.9450	
<b>Easting (M)</b>	388,286.6840	
<b>Elevation (M)*</b>	247.335	
<b>Northing (SFT)</b>	468,378.1479	
<b>Easting (SFT)</b>	1,273,903.8958	
<b>Elevation (SFT)*</b>	811.465	

  

<b>Convergence Angle</b>	0	4	30.8680287
<b>Scale Factor</b>	0.999936130		
<b>Elevation Adjust. Factor</b>	0.9999611866		
<b>Combined Adjust. Factor</b>	0.9998973191		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END 24" RCP	195	5.55	18.2
<b>MK # 2</b>	COMBINATION POLE WITH GUY	349	16.00	52.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.</td> </tr> </table>	Comments	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.
Comments			
ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.			

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    35    37    12.3068208

**Longitude**    92    7    45.4896624

**Ellipsoid Height (M):**    219.874   

**Geoid Height (M):**    -27.461

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 2.55 MILES TO THE MARK ON THE LEFT, WEST 20.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 20.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120013 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120013A	<b>Date Monumented</b> 4/28/2010	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 225	<b>Job Number:</b> 050228
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,325.2010	
<b>Easting (M)</b>	388,186.8450	
<b>Elevation (M)*</b>	209.957	
<b>Northing (SFT)</b>	466,945.2636	
<b>Easting (SFT)</b>	1,273,576.3406	
<b>Elevation (SFT)*</b>	688.834	

  

<b>Convergence Angle</b>	0	4	33.1634064
<b>Scale Factor</b>	0.999936090		
<b>Elevation Adjust. Factor</b>	0.9999670520		
<b>Combined Adjust. Factor</b>	0.9999031441		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWE POLE	248	75.59	248.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.
Ref Mon # 2: ARHR	
Ref Mon # 3: ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120014	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	138,885.2698	
<b>Easting (M)</b>	406,390.9314	
<b>Elevation (M)*</b>	299.665	
<b>Northing (SFT)</b>	455,659.4227	
<b>Easting (SFT)</b>	1,333,300.9141	
<b>Elevation (SFT)*</b>	983.152	

  

<b>Convergence Angle</b>	0	2	27.7248307
<b>Scale Factor</b>	0.999935935		
<b>Elevation Adjust. Factor</b>	0.9999529749		
<b>Combined Adjust. Factor</b>	0.9998889130		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	330	8.41	27.6
MK # 2	NORTHEAST CORNER OF METAL BUILDING	267	19.32	63.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, &amp; 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Comments			
ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 25 SPUR, NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 4.15 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 29.6 FEET AND NORTH 76.0 FEET OF THE CENTERLINE OF GRAVEL DRIVE AND EAST 13.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120014 2011" ON TOP OF A 2 FOOT BEBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	120014A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120014A	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	138,368.3590	
<b>Easting (M)</b>	406,258.4015	
<b>Elevation (M)*</b>	292.594	
<b>Northing (SFT)</b>	453,963.5245	
<b>Easting (SFT)</b>	1,332,866.1056	
<b>Elevation (SFT)*</b>	959.953	

  

<b>Convergence Angle</b>	0	2	24.6530562
<b>Scale Factor</b>	0.999935937		
<b>Elevation Adjust. Factor</b>	0.9999540845		
<b>Combined Adjust. Factor</b>	0.9998900245		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 25 SPUR, NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 3.85 MILES TO THE MARK ON THE RIGHT, EAST OF THE CENTERLINE OF THE HIGHWAY 26.7 FEET AND NORTH 85.5 FEET OF THE CENTER OF CONCRETE DRIVE AND WEST 12.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120014A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF METAL SIGN	29	16.61	54.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120015	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,585.5525	
<b>Easting (M)</b>	405,331.5104	
<b>Elevation (M)*</b>	287.801	
<b>Northing (SFT)</b>	464,518.6002	
<b>Easting (SFT)</b>	1,329,825.1304	
<b>Elevation (SFT)*</b>	944.227	

  

<b>Convergence Angle</b>	0	2	3.2738823
<b>Scale Factor</b>	0.999936032		
<b>Elevation Adjust. Factor</b>	0.9999548367		
<b>Combined Adjust. Factor</b>	0.9998908716		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	134	11.33	37.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120015A	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,033.1266	
<b>Easting (M)</b>	405,189.8312	
<b>Elevation (M)*</b>	294.081	
<b>Northing (SFT)</b>	465,987.0162	
<b>Easting (SFT)</b>	1,329,360.3045	
<b>Elevation (SFT)*</b>	964.832	

  

<b>Convergence Angle</b>	0	2	0.0040305
<b>Scale Factor</b>	0.999936066		
<b>Elevation Adjust. Factor</b>	0.9999538512		
<b>Combined Adjust. Factor</b>	0.9998899201		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 25 SPUR, NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 6.45 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 38.5 FEET AND EAST 3.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120015A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120016	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> CR 90	<b>Job Number:</b> 050261
--------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	146,608.9913	
<b>Easting (M)</b>	407,055.3010	
<b>Elevation (M)*</b>	324.465	
<b>Northing (SFT)</b>	480,999.6656	
<b>Easting (SFT)</b>	1,335,480.6000	
<b>Elevation (SFT)*</b>	1,064.516	

  

<b>Convergence Angle</b>	0	2	43.2228444
<b>Scale Factor</b>	0.999936691		
<b>Elevation Adjust. Factor</b>	0.9999490834		
<b>Combined Adjust. Factor</b>	0.9998857777		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 5 NORTH, NORTHEAST OF DRASCO, FROM THE JUNCTION, GO NORTH ON COUNTY ROAD 90 (WOLF BAYO) 0.15 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE COUNTY ROAD 90, 19.0 FEET AND SOUTH 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120016 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					120016A
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120016A	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> CR 90	<b>Job Number:</b> 050261
---------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	146,601.9705	
<b>Easting (M)</b>	407,735.9351	
<b>Elevation (M)*</b>	321.362	
<b>Northing (SFT)</b>	480,976.6315	
<b>Easting (SFT)</b>	1,337,713.6471	
<b>Elevation (SFT)*</b>	1,054.334	

  

<b>Convergence Angle</b>	0	2	58.9690166
<b>Scale Factor</b>	0.999936689		
<b>Elevation Adjust. Factor</b>	0.9999495704		
<b>Combined Adjust. Factor</b>	0.9998862626		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	275	13.83	45.4
MK # 2	POWER POLE WITN GUY	358	28.00	91.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120017	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	148,644.4064	
<b>Easting (M)</b>	408,679.8568	
<b>Elevation (M)*</b>	330.545	
<b>Northing (SFT)</b>	487,677.5233	
<b>Easting (SFT)</b>	1,340,810.4969	
<b>Elevation (SFT)*</b>	1,084.464	

  

<b>Convergence Angle</b>	0	3	20.8524199
<b>Scale Factor</b>	0.999937134		
<b>Elevation Adjust. Factor</b>	0.9999481293		
<b>Combined Adjust. Factor</b>	0.9998852666		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 NORTH AND STATE HIGHWAY 25, NORTHEAST OF DRASCO GO NORTH ON HIGHWAY 25 1.85 MILES TO THE MARK ON THE LEFT, NORTH 20.7 FEET OF THE CENTERLINE OF HIGHWAY 25 AND SOUTH 16.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120017 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, &amp; 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120017A	<b>Date Monumented</b> 11/8/2011	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 050261
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	148,556.4564		
<b>Easting (M)</b>	409,181.3824		
<b>Elevation (M)*</b>	327.217		
<b>Northing (SFT)</b>	487,388.9740		
<b>Easting (SFT)</b>	1,342,455.9188		
<b>Elevation (SFT)*</b>	1,073.544		

  

<b>Convergence Angle</b>	0	3	32.4556479
<b>Scale Factor</b>	0.999937113		
<b>Elevation Adjust. Factor</b>	0.9999486516		
<b>Combined Adjust. Factor</b>	0.9998857679		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	106	28.80	94.5
<b>MK # 2</b>	FIRE HYDRANT	70	21.37	70.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, &amp; 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Comments			
ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 NORTH AND STATE HIGHWAY 25, NORTHEAST OF DRASCO GO NORTH ON HIGHWAY 25 2.15 MILES TO THE MARK ON THE RIGHT, SOUTH 22.8 FEET OF THE CENTERLINE OF HIGHWAY 25 AND NORTH 16.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120017A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	120017
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120018	<b>Date Monumented</b> 2/7/2012	<b>Monumented By</b> AHTD	<b>County</b> Cleburne	<b>Route</b> 16	<b>Job Number:</b> 050262,050315
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	122,389.5696	
<b>Easting (M)</b>	405,786.8665	
<b>Elevation (M)*</b>	268.700	
<b>Northing (SFT)</b>	401,539.7796	
<b>Easting (SFT)</b>	1,331,319.0778	
<b>Elevation (SFT)*</b>	881.561	

  

<b>Convergence Angle</b>	0	2	13.5152108
<b>Scale Factor</b>	0.999939242		
<b>Elevation Adjust. Factor</b>	0.9999578339		
<b>Combined Adjust. Factor</b>	0.9998970785		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	north of center line of highway 16	180	7.01	23.0
MK # 2	west of gravel driveway	95	11.00	36.1
MK # 3	south east of power pole with guide wire	305	14.33	47.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.</td> </tr> </table>	Comments	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Comments			
3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120018A	<b>Date Monumented</b> 2/7/2012	<b>Monumented By</b> AHTD	<b>County</b> Cleburne	<b>Route</b> 16	<b>Job Number:</b> 050262,050315
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	122,125.3743	
<b>Easting (M)</b>	405,579.4067	
<b>Elevation (M)*</b>	267.405	
<b>Northing (SFT)</b>	400,672.9988	
<b>Easting (SFT)</b>	1,330,638.4368	
<b>Elevation (SFT)*</b>	877.312	

  

<b>Convergence Angle</b>	0	2	8.7248719
<b>Scale Factor</b>	0.999939350		
<b>Elevation Adjust. Factor</b>	0.9999580372		
<b>Combined Adjust. Factor</b>	0.9998973897		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	west of the center line of good springs road	85	5.80	19.0
MK # 2	south west of power pole	70	12.19	40.0
MK # 3	east of witness post		0.30	1.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120019	<b>Date Monumented</b> 2/7/2012	<b>Monumented By</b> AHTD	<b>County</b> Cleburne	<b>Route</b> 16	<b>Job Number:</b> 050262.050279
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	121,858.2132	
<b>Easting (M)</b>	410,485.3994	
<b>Elevation (M)*</b>	167.188	
<b>Northing (SFT)</b>	399,796.4878	
<b>Easting (SFT)</b>	1,346,734.1812	
<b>Elevation (SFT)*</b>	548.515	

  

<b>Convergence Angle</b>	0	4	1.9058156
<b>Scale Factor</b>	0.999939462		
<b>Elevation Adjust. Factor</b>	0.9999737635		
<b>Combined Adjust. Factor</b>	0.9999132271		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	south of center line of highway 16	0	8.42	27.6
<b>MK # 2</b>	East of 18" cmp	280	9.72	31.9
<b>MK # 3</b>	North west of the north west corner of brick church	135	24.08	79.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120019A	<b>Date Monumented</b> 2/7/2012	<b>Monumented By</b> AHTD	<b>County</b> Cleburne	<b>Route</b> 16	<b>Job Number:</b> 050262
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	121,864.2099	
<b>Easting (M)</b>	410,903.1506	
<b>Elevation (M)*</b>	175.649	
<b>Northing (SFT)</b>	399,816.1620	
<b>Easting (SFT)</b>	1,348,104.7533	
<b>Elevation (SFT)*</b>	576.276	

  

<b>Convergence Angle</b>	0	4	11.5437996
<b>Scale Factor</b>	0.999939459		
<b>Elevation Adjust. Factor</b>	0.9999724357		
<b>Combined Adjust. Factor</b>	0.9999118963		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	west of haddix lane	95	10.06	33.0
MK # 2	south west of power pole with guide wire	40	11.58	38.0
MK # 3	north of the center line highway 16	180	8.23	27.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.</td> </tr> </table>	Comments	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Comments			
3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120020	<b>Date Monumented</b> 9/8/2014	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 16	<b>Job Number:</b> 050315
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	123,462.3660	0.0030	
<b>Easting (M)</b>	402,367.1977	0.0032	
<b>Elevation (M)*</b>	264.583		
<b>Northing (SFT)</b>	405,059.4458		
<b>Easting (SFT)</b>	1,320,099.7145		
<b>Elevation (SFT)*</b>	868.051		

  

<b>Convergence Angle</b>	0	0	54.6228020
<b>Scale Factor</b>	0.999938823		
<b>Elevation Adjust. Factor</b>	0.9999584801		
<b>Combined Adjust. Factor</b>	0.9998973056		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	267	40.80	133.9
<b>MK # 2</b>	TELEPHONE BOX	86	18.70	61.4
<b>MK # 3</b>	WOODEN FENCE POST	177	1.30	4.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	3 Wire Levels were ran by crew S5114 in Sep. 15 from 2nd order NGS mark N 207.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120021	<b>Date Monumented</b> 9/8/2014	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 16	<b>Job Number:</b> 050315
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	123,468.1845	0.0028	
<b>Easting (M)</b>	402,756.0249	0.0031	
<b>Elevation (M)*</b>	266.445		
<b>Northing (SFT)</b>	405,078.5353		
<b>Easting (SFT)</b>	1,321,375.3917		
<b>Elevation (SFT)*</b>	874.160		

  

<b>Convergence Angle</b>	0	1	3.5949841
<b>Scale Factor</b>	0.999938821		
<b>Elevation Adjust. Factor</b>	0.9999581879		
<b>Combined Adjust. Factor</b>	0.9998970115		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	179	13.80	45.3
<b>MK # 2</b>	METAL FENCE CORNER POST	281	15.90	52.2
<b>MK # 3</b>	POWER POLE	3	2.00	6.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> 3 Wire Levels were ran by crew S5114 in Sep. 14 from 2nd order NGS mark N207. ELEV WAS UPDATED 01/25/2015 DURING JOB 050315 FROM 874.22 TO 874.16. NEW ELEV IS BASED ON NGS BM N 207.
---	--

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID09

**Latitude** 35 26 46.4794908

**Longitude** 91 58 10.7113260

**Ellipsoid Height (M):** 239.018 0.0135

**Geoid Height (M):** -27.465

  

**Location Description**

TO REACH FROM THE JUNCTION OF HIGHWAY 25 AND HIGHWAY 16 IN HEBER SPRINGS. GO EAST ON HIGHWAY 16 FOR 4.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 22.6 FT. NORTH OF THE CENTERLINE OF HIGHWAY 16. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "120021 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	120020
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120022	<b>Date Monumented</b> 5/13/2015	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 012227, 050413
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	121,951.3910	0.0030			
<b>Easting (M)</b>	390,441.6447	0.0030			
<b>Elevation (M)*</b>	236.503				
<b>Northing (SFT)</b>	400,102.1886				
<b>Easting (SFT)</b>	1,280,973.9627				
<b>Elevation (SFT)*</b>	775.927				

  

<b>Convergence Angle</b>	0	3	40.5205457
<b>Scale Factor</b>	0.999939423		
<b>Elevation Adjust. Factor</b>	0.9999628863		
<b>Combined Adjust. Factor</b>	0.9999023116		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 16W, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.4 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 18 FEET OF THE EDGE OF THE PAVEMENT AND NORTHWEST 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR Ref Mon # 2    ARBT Ref Mon # 3    P777	<b>Comments</b>  ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120023	<b>Date Monumented</b> 5/13/2015	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 012227, 050413
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	123,693.7914	0.0020	
<b>Easting (M)</b>	392,225.0668	0.0020	
<b>Elevation (M)*</b>	249.579		
<b>Northing (SFT)</b>	405,818.7140		
<b>Easting (SFT)</b>	1,286,825.0733		
<b>Elevation (SFT)*</b>	818.828		

  

<b>Convergence Angle</b>	0	2	59.4102542
<b>Scale Factor</b>	0.999938737		
<b>Elevation Adjust. Factor</b>	0.9999608344		
<b>Combined Adjust. Factor</b>	0.9998995738		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107N, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.65 MILES TO THE MARK ON THE LEFT, NORTH 13 FEET OF THE EDGE OF THE PAVEMENT. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120023" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120023A	<b>Date Monumented</b> 5/13/2015	<b>Monumented By</b> AHTD	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 012227, 050413
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	123,695.0108	0.0030	
<b>Easting (M)</b>	392,732.2432	0.0030	
<b>Elevation (M)*</b>	255.643		
<b>Northing (SFT)</b>	405,822.7146		
<b>Easting (SFT)</b>	1,288,489.0346		
<b>Elevation (SFT)*</b>	838.723		

  

<b>Convergence Angle</b>	0	2	47.7069474
<b>Scale Factor</b>	0.999938737		
<b>Elevation Adjust. Factor</b>	0.9999598828		
<b>Combined Adjust. Factor</b>	0.9998986223		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107N, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 1 MILE TO THE MARK ON THE LEFT, NORTH 17.3 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120023A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						120023
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120024	<b>Date Monumented</b> 1/22/2019	<b>Monumented By</b> ARDOT	<b>County</b> CLEBURNE	<b>Route</b> 16	<b>Job Number:</b> Hwy. 16 Slide
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 130,700.9433	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 379,842.7182	<b>0.0020</b>	<b>Latitude</b> 35 30 40.4528328
<b>Elevation (M)*</b>		<b>Longitude</b> 92 13 19.9720416
<b>Northing (SFT)</b> 428,808.0115		<b>Ellipsoid Height (M):</b> 229.417 0.0090
<b>Easting (SFT)</b> 1,246,200.6513		<b>Geoid Height (M):</b> -27.660 0.0090
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	<b>0</b>	<b>7</b>	<b>45.5030335</b>
<b>Scale Factor</b>	<b>0.999936743</b>		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PPOLE + GY		195	10.97	36.0
MK # 2	TB		171	25.00	82.0
MK # 3	S END OF CU		78	3.52	11.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARRV AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 120024A	<b>Date Monumented</b> 1/22/2019	<b>Monumented By</b> ARDOT	<b>County</b> CLEBURNE	<b>Route</b> 16	<b>Job Number:</b> Hwy. 16 Slide
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	130,268.0287	0.0030	
<b>Easting (M)</b>	380,013.3588	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	427,387.6908		
<b>Easting (SFT)</b>	1,246,760.4947		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	7	41.5399792
<b>Scale Factor</b>	0.999936832		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid12B		
<b>Latitude</b>	35	30	26.4176136
<b>Longitude</b>	92	13	13.1614896
<b>Ellipsoid Height (M):</b>	223.175	0.0090	
<b>Geoid Height (M):</b>	-27.653	0.0090	

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-16 AND SR-225 S OF HIGDEN, GO N ON SR-16 1.2 MILES TO STATION ON LEFT. 24.5' W OF C/L SR-16. 18.6' N OF CTR OF CONCRETE DW. THE MARK IS A STANDARD 2½" CAP STAMPED "120024A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PPOLE	191	5.50	18.0	
MK # 2	WATER VALVE	286	20.12	66.0	
MK # 3	SE COR OF MTL BU	282	15.54	51.0	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARRV AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130001	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	522,301.6582	
<b>Easting (M)</b>	400,645.6730	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,713,584.6903	
<b>Easting (SFT)</b>	1,314,451.6788	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	14.0451006
<b>Scale Factor</b>	0.999929109		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSEY NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 6.04 KM (3.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS EAST OF THE CENTERLINE OF HWY. 15, 32.748 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A ONE STORY WHITE FRAME HOUSE, 22.00 METERS SOUTH OF THE CENTER OF A DRIVEWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130001 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	22	4.15	13.6
MK # 2	NBC IN COMBINATION POLE	235	26.23	86.1
MK # 3	GAS METER	285	26.92	88.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    WARRPORT</p> <p>Ref Mon # 2    CELLPORT</p> <p>Ref Mon # 3    93400004</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130001A	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	522,699.6671	
<b>Easting (M)</b>	400,644.9800	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,714,890.4911	
<b>Easting (SFT)</b>	1,314,449.4052	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	14.0306156
<b>Scale Factor</b>	0.999928823		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 5.65 KM (3.50 MILES) TO THE STATION ON THE LEFT JUST SOUTH OF A CEMETERY. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 15, 28.00 METERS SOUTH SOUTHWEST OF AN ARKLA GAS REGULATOR STATION AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13001A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    WARRPORT</p> <p>Ref Mon # 2    CELLPORT</p> <p>Ref Mon # 3    93400004</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130002	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	528,201.3271	
<b>Easting (M)</b>	399,739.5750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,732,940.5207	
<b>Easting (SFT)</b>	1,311,478.9223	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	5.6684620
<b>Scale Factor</b>	0.999925269		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	334	29.85	97.9
<b>MK # 2</b>	TOP OF FIRE HYDRANT	237	16.20	53.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> CELLPORT	
<b>Ref Mon # 3</b> 93400004	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 49 21.1759212
<b>Longitude</b>	92 0 10.1278476
<b>Ellipsoid Height (M):</b>	47.778
<b>Geoid Height (M):</b>	-26.542

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 29.00 METERS NORTH OF THE CENTERLINE OF HWY. 11, 14.10 METERS EAST OF THE CENTERLINE OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130002A	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	528,944.2152	
<b>Easting (M)</b>	399,404.0000	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,735,377.8127	
<b>Easting (SFT)</b>	1,310,377.9567	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	12.9736706
<b>Scale Factor</b>	0.999924846		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 18" PINE TREE	335	27.65	90.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> CELLPORT	
<b>Ref Mon # 3</b> 93400004	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    49    45.2884440
<b>Longitude</b>	92    0    23.1800724
<b>Ellipsoid Height (M):</b>	45.224
<b>Geoid Height (M):</b>	-26.542

  

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTERLINE OF HWY. 15, 14.20 METERS SOUTH OF A DRIVEWAY AND 0.75 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "13002A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130003	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	531,901.6871	
<b>Easting (M)</b>	398,408.6340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,745,080.7851	
<b>Easting (SFT)</b>	1,307,112.3267	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	34.6515138
<b>Scale Factor</b>	0.999923297		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 4.19 KM (2.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.25 METERS EAST OF THE CENTERLINE OF HWY. 15, 26.384 METERS NORTH OF A DRIVEWAY, 25.187 METERS NORTHWEST OF THE NORTHWEST CORNER OF A BRICK HOUSE AND 1.0 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130003 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    WARRPORT</p> <p>Ref Mon # 2    CELLPORT</p> <p>Ref Mon # 3    93400004</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130003A	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	532,514.5141	
<b>Easting (M)</b>	398,518.1880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,747,091.3683	
<b>Easting (SFT)</b>	1,307,471.7551	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	32.2680966
<b>Scale Factor</b>	0.999923002		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 20" GUM TREE	4	28.18	92.5
<b>MK # 2</b>	NBC IN POWER POLE	259	33.35	109.4
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	130003
<b>Geodetic Azimuth</b>	190 07 35.77226
<b>Grid Azimuth</b>	190 08 08.04576

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> CELLPORT	
<b>Ref Mon # 3</b> 93400004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130004	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	536,647.6070	
<b>Easting (M)</b>	397,807.3880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,760,651.3573	
<b>Easting (SFT)</b>	1,305,139.7388	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	47.7673972
<b>Scale Factor</b>	0.999921260		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 8" CHERRY TREE	45	25.35	83.2
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	101	30.04	98.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> CELLPORT	
<b>Ref Mon # 3</b> 93400004	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 53 55.3201692
<b>Longitude</b>	92 1 25.3460640
<b>Ellipsoid Height (M):</b>	48.806
<b>Geoid Height (M):</b>	-26.546

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.54 KM (2.82 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 0.70 METERS EAST OF A WITNESS POST AND FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130004 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130004A	<b>Date Monumented</b> 1/12/1994	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> R70095
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	537,158.9151	
<b>Easting (M)</b>	397,750.5090	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,762,328.8740	
<b>Easting (SFT)</b>	1,304,953.1283	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	49.0091878
<b>Scale Factor</b>	0.999921074		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN 20" SYCAMORE TREE	178			33.24	109.0
MK # 2	NONE					
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT <b>Ref Mon # 2</b> CELLPORT <b>Ref Mon # 3</b> 93400004	

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 54 11.9158776
<b>Longitude</b>	92 1 27.5647728
<b>Ellipsoid Height (M):</b>	51.564
<b>Geoid Height (M):</b>	-26.546

Location Description
FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.02 KM ( 2.50 MILES ) TO THE STATION ON THE RIGHT. THE STATION IS 11.31 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 1.00 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13004A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	130004
<b>Geodetic Azimuth</b>	173 38 19.59609
<b>Grid Azimuth</b>	173 39 08.60315

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130006	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	545,343.3510	
<b>Easting (M)</b>	396,000.2150	
<b>Elevation (M)*</b>	84.439	
<b>Northing (SFT)</b>	1,789,180.6441	
<b>Easting (SFT)</b>	1,299,210.7054	
<b>Elevation (SFT)*</b>	277.030	

  

<b>Convergence Angle</b>	0	1	27.2178689
<b>Scale Factor</b>	0.999918967		
<b>Elevation Adjust. Factor</b>	0.9999867489		
<b>Combined Adjust. Factor</b>	0.9999057170		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	14" METAL PIPE	0	20.40	66.9
<b>MK # 2</b>	EAST CORNER OF BRICK AND WOOD SIGN	34	9.75	32.0
<b>MK # 3</b>	14" METAL PIPE	195	25.00	82.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> TARRY	
<b>Ref Mon # 2</b> 130004 AHTD	
<b>Ref Mon # 3</b> 93400004 AHTD	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 58 37.5478716
<b>Longitude</b>	92 2 35.8322676
<b>Ellipsoid Height (M):</b>	57.869
<b>Geoid Height (M):</b>	-26.555

Location Description
<p>FROM THE JCT. OF HWY. 65 AND HWY. 15 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 31.73 KM (19.72 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "FRIENDSHIP MISSIONARY BAPTIST CHURCH" AND 1.19 KM (0.74 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 24.0 METERS SOUTH OF THE NORTHERN MOST DRIVEWAY TO THE CHURCH, 30 METERS NORTH OF THE SOUTHERN MOST DRIVEWAY TO THE CHURCH, 11.5 METERS EAST OF THE CENTER OF HWY. 15, 4.20 METERS WEST OF THE EDGE OF THE PAVED PARKING AREA AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130006A	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	546,085.4171	
<b>Easting (M)</b>	396,188.5070	
<b>Elevation (M)*</b>	83.610	
<b>Northing (SFT)</b>	1,791,615.2393	
<b>Easting (SFT)</b>	1,299,828.4600	
<b>Elevation (SFT)*</b>	274.310	

  

<b>Convergence Angle</b>	0	1	23.1185622
<b>Scale Factor</b>	0.999918858		
<b>Elevation Adjust. Factor</b>	0.9999868790		
<b>Combined Adjust. Factor</b>	0.9999057381		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 30.96 KM (19.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 1.96 KM (1.22 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 10.70 METERS WEST OF THE CENTER OF HWY. 15, 11.60 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 9.20 METERS NORTH OF A STEEL MAIL BOX POST, 4.50 METERS NORTHEAST OF A DUG WELL WITH A SMALL SHED OVER IT AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 TARRY	
Ref Mon # 2 130004 AHTD	
Ref Mon # 3 93400004 AHTD	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130007	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	547,648.4600				
<b>Easting (M)</b>	396,235.0560				
<b>Elevation (M)*</b>	81.613				
<b>Northing (SFT)</b>	1,796,743.3225				
<b>Easting (SFT)</b>	1,299,981.1796				
<b>Elevation (SFT)*</b>	267.759				

  

<b>Convergence Angle</b>	0	1	22.1170226
<b>Scale Factor</b>	0.999918672		
<b>Elevation Adjust. Factor</b>	0.9999871924		
<b>Combined Adjust. Factor</b>	0.9999058655		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	UNDERGROUND CABLE MARKER	180	8.10	26.6
<b>MK # 2</b>	FENCE CORNER	280	0.65	2.1
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	130007A
<b>Geodetic Azimuth</b>	176 39 39.12767
<b>Grid Azimuth</b>	176 41 01.24433

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TARRY	
<b>Ref Mon # 2</b> 130004 AHTD	
<b>Ref Mon # 3</b> 93400004 AHTD	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130007A	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	547,065.8020		
<b>Easting (M)</b>	396,268.8180		
<b>Elevation (M)*</b>	82.958		
<b>Northing (SFT)</b>	1,794,831.7187		
<b>Easting (SFT)</b>	1,300,091.9471		
<b>Elevation (SFT)*</b>	272.171		

  

<b>Convergence Angle</b>	0	1	21.3756270
<b>Scale Factor</b>	0.999918734		
<b>Elevation Adjust. Factor</b>	0.9999869814		
<b>Combined Adjust. Factor</b>	0.9999057164		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 TARRY	
Ref Mon # 2 130004 AHTD	
Ref Mon # 3 93400004 AHTD	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NGVD 29

**Geoid Datum:**

**Latitude** 33 59 33.4584708

**Longitude** 92 2 25.3939272

**Ellipsoid Height (M):** 56.400

**Geoid Height (M):** -26.558

  

**Location Description**

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 29.96 KM (18.62 MILES) TO THE STATION ON THE LEFT. THE STATION IS 2.96 KM (1.84 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOL. THE STATION IS 12.20 METERS EAST OF THE CENTER OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	130007
<b>Geodetic Azimuth</b>	356 39 39.86832
<b>Grid Azimuth</b>	356 41 01.24433

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130008	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	550,505.1750	
<b>Easting (M)</b>	396,177.9320	
<b>Elevation (M)*</b>	88.377	
<b>Northing (SFT)</b>	1,806,115.7283	
<b>Easting (SFT)</b>	1,299,793.7652	
<b>Elevation (SFT)*</b>	289.950	

  

<b>Convergence Angle</b>	0	1	23.3881399
<b>Scale Factor</b>	0.999918487		
<b>Elevation Adjust. Factor</b>	0.9999861310		
<b>Combined Adjust. Factor</b>	0.9999046191		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 4.52 KM (2.81 MILES) TO THE STATION ON THE RIGHT IN THE SMALL VILLAGE OF RANDALL. THE STATION IS 11.0 METERS WEST OF THE CENTER OF HWY. 15, 8.20 METERS NORTH OF THE NORTHERN MOST ENTRANCE TO A METAL BARN AND HORSE CORRAL, 19.20 METERS NORTH OF A WATER VALVE AND 2.46 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	6" FENCE CORNER POST	215	5.80	19.0
<b>MK # 2</b>	18" CONCRETE CULVERT	165	4.90	16.1
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    TARRY</p> <p><b>Ref Mon # 2</b>    93400004 AHTD</p> <p><b>Ref Mon # 3</b>    GLEN LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130008A	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	550,874.3961	
<b>Easting (M)</b>	396,189.0780	
<b>Elevation (M)*</b>	85.852	
<b>Northing (SFT)</b>	1,807,327.0812	
<b>Easting (SFT)</b>	1,299,830.3334	
<b>Elevation (SFT)*</b>	281.666	

  

<b>Convergence Angle</b>	0	1	23.1482092
<b>Scale Factor</b>	0.999918478		
<b>Elevation Adjust. Factor</b>	0.9999865272		
<b>Combined Adjust. Factor</b>	0.9999050063		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	310	10.20	33.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> TARRY	
<b>Ref Mon # 2</b> 93400004 AHTD	
<b>Ref Mon # 3</b> GLEN LAKE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 1 37.0756956
<b>Longitude</b>	92 2 28.5610020
<b>Ellipsoid Height (M):</b>	59.288
<b>Geoid Height (M):</b>	-26.564

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE SOUTH ON HWY. 15 FOR 4.15 KM (2.58 MILES) TO THE SMALL VILLAGE OF RANDALL AND THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF HWY. 15, 2.70 METERS SOUTH OF A GUY WIRE AND 2.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130009	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025,RX0030
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,091.3171	
<b>Easting (M)</b>	396,141.1370	
<b>Elevation (M)*</b>	80.154	
<b>Northing (SFT)</b>	1,814,600.4295	
<b>Easting (SFT)</b>	1,299,673.0470	
<b>Elevation (SFT)*</b>	262.972	

  

<b>Convergence Angle</b>	0	1	24.2139532
<b>Scale Factor</b>	0.999918493		
<b>Elevation Adjust. Factor</b>	0.9999874214		
<b>Combined Adjust. Factor</b>	0.9999059154		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	2	49.0401600
<b>Longitude</b>	92	2	30.4562832
<b>Ellipsoid Height:</b>	53.587		
<b>Grid Northing (Meters)</b>	553,091.6010		
<b>Grid Easting (Meters)</b>	396,141.3650		

  

Location Description				
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 1.89 KM (1.18 MILES) TO A SIDE ROAD RIGHT LEADING INTO A SUBDIVISION, TURN RIGHT ONTO A GRAVEL ROAD AND GO 47.3 METERS (155.18 FEET) TO THE STATION ON THE RIGHT. THE STATION IS 48.0 METERS EAST OF THE NORTH END OF A CONCRETE CROSS DRAIN, 7.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	88	31.50	103.3
MK # 2	POWER POLE	290	0.90	3.0
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: TARRY</p> <p>Ref Mon # 2: 93400004 AHTD</p> <p>Ref Mon # 3: GLEN LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130009A	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 15	<b>Job Number:</b> RX0025
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	553,086.2110	
<b>Easting (M)</b>	395,906.7550	
<b>Elevation (M)*</b>	83.167	
<b>Northing (SFT)</b>	1,814,583.6773	
<b>Easting (SFT)</b>	1,298,904.0787	
<b>Elevation (SFT)*</b>	272.857	

  

<b>Convergence Angle</b>	0	1	29.3289440
<b>Scale Factor</b>	0.999918493		
<b>Elevation Adjust. Factor</b>	0.9999869486		
<b>Combined Adjust. Factor</b>	0.9999054426		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 1.89 KM (1.18 MILES) TO A GRAVEL SIDE ROAD RIGHT INTO A NEW SUBDIVISION, TURN RIGHT AND WEST ON GRAVEL ROAD AND GO 0.25 KM (0.16 MILES) TO A "T" JUNCTION AND THE STATION STRAIGHT AHEAD ACROSS THE GRAVEL ROAD. THE STATION IS 7.50 METERS WEST OF A NORTH-SOUTH GRAVEL ROAD, 3.35 METERS SOUTH OF A TELEPHONE JUNCTION BOX AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		335	1.65	5.4
MK # 2	12" TREE		240	19.50	64.0
MK # 3	10" PINE TREE		305	25.00	82.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: TARRY</p> <p>Ref Mon # 2: 93400004 AHTD</p> <p>Ref Mon # 3: GLEN LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130016	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914,RX0028
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,237.7890	
<b>Easting (M)</b>	361,792.7480	
<b>Elevation (M)*</b>	81.121	
<b>Northing (SFT)</b>	1,782,272.6461	
<b>Easting (SFT)</b>	1,186,981.7074	
<b>Elevation (SFT)*</b>	266.143	

  

<b>Convergence Angle</b>	0	13	52.9436669
<b>Scale Factor</b>	0.999919368		
<b>Elevation Adjust. Factor</b>	0.9999872697		
<b>Combined Adjust. Factor</b>	0.9999066387		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	57	26.7401628
<b>Longitude</b>	92	24	48.2120604
<b>Ellipsoid Height:</b>	54.381		
<b>Grid Northing (Meters)</b>	543,238.1261		
<b>Grid Easting (Meters)</b>	361,792.9895		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.13 KM (9.40 MI) TO THE STATION AND GARNER CEMETERY ON THE LEFT. THE STATION IS 18.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.00 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD AND 0.65 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete right of way marker	177	4.55	14.9
MK # 2	Corner post of chain link fence	354	10.25	33.6
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, 1ULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130016A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914,RX0028
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,670.8121	
<b>Easting (M)</b>	361,776.1360	
<b>Elevation (M)*</b>	73.157	
<b>Northing (SFT)</b>	1,783,693.3227	
<b>Easting (SFT)</b>	1,186,927.2062	
<b>Elevation (SFT)*</b>	240.015	

  

<b>Convergence Angle</b>	0	13	53.3439543
<b>Scale Factor</b>	0.999919279		
<b>Elevation Adjust. Factor</b>	0.9999885194		
<b>Combined Adjust. Factor</b>	0.9999077994		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	57	40.7927736
<b>Longitude</b>	92	24	48.9271716
<b>Ellipsoid Height:</b>	46.446		
<b>Grid Northing (Meters)</b>	543,671.1448		
<b>Grid Easting (Meters)</b>	361,776.3797		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.53 KM (9.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 9.50 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM, IULM,S 197,K 124</p> <p><b>Ref Mon # 2</b>    700014,270005    070003,0700</p> <p><b>Ref Mon # 3</b>    T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130017	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 167	<b>Job Number:</b> RX0028
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	551,135.1090	
<b>Easting (M)</b>	362,082.1480	
<b>Elevation (M)*</b>	68.907	
<b>Northing (SFT)</b>	1,808,182.4368	
<b>Easting (SFT)</b>	1,187,931.1806	
<b>Elevation (SFT)*</b>	226.072	

  

<b>Convergence Angle</b>	0	13	47.3251761
<b>Scale Factor</b>	0.999918475		
<b>Elevation Adjust. Factor</b>	0.9999891864		
<b>Combined Adjust. Factor</b>	0.9999076622		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	358	33.06	108.5
MK # 2	ALLTELL UNDER GROUND CABLE MARKE	173	19.49	63.9
MK # 3	NONE			

  

<b>AZ Mark Station</b>	130017A
<b>Geodetic Azimuth</b>	184 34 30.74368
<b>Grid Azimuth</b>	184 48 18.06896

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130017A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 167	<b>Job Number:</b> RX0028
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	550,509.1280				
<b>Easting (M)</b>	362,029.5280				
<b>Elevation (M)*</b>	62.754				
<b>Northing (SFT)</b>	1,806,128.6974				
<b>Easting (SFT)</b>	1,187,758.5431				
<b>Elevation (SFT)*</b>	205.885				

  

<b>Convergence Angle</b>	0	13	48.4184173
<b>Scale Factor</b>	0.999918489		
<b>Elevation Adjust. Factor</b>	0.9999901519		
<b>Combined Adjust. Factor</b>	0.9999086418		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	58	38.48	126.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	130017
<b>Geodetic Azimuth</b>	4 34 29.65068
<b>Grid Azimuth</b>	4 48 18.06896

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MALEPORT	
Ref Mon # 2 WARRPORT	
Ref Mon # 3 TULIP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130018	<b>Date Monumented</b> 3/28/2001	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 63	<b>Job Number:</b> 070204
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	540,888.1437	
<b>Easting (M)</b>	397,178.4626	
<b>Elevation (M)*</b>	77.440	
<b>Northing (SFT)</b>	1,774,563.8515	
<b>Easting (SFT)</b>	1,303,076.3394	
<b>Elevation (SFT)*</b>	254.067	

  

<b>Convergence Angle</b>	0	1	1.4964649
<b>Scale Factor</b>	0.999919910		
<b>Elevation Adjust. Factor</b>	0.9999878473		
<b>Combined Adjust. Factor</b>	0.9999077583		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 114 WEST, LOCATED IN CALMER, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT, SET SOUTH OF THE MT. OLIVE UNTIED METHODIST CHURCH. THE STATION IS 17.60 METERS NORTH OF A PAVED DRIVEWAY, 13.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130018 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 774.771 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	177	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    K 124</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on BM917 from Job 070132 from Job 070088</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130018A	<b>Date Monumented</b> 3/28/2001	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 63	<b>Job Number:</b> 070204
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	540,130.3384				
<b>Easting (M)</b>	397,339.4071				
<b>Elevation (M)*</b>	73.274				
<b>Northing (SFT)</b>	1,772,077.6186				
<b>Easting (SFT)</b>	1,303,604.3715				
<b>Elevation (SFT)*</b>	240.401				

  

<b>Convergence Angle</b>	0	0	57.9839758
<b>Scale Factor</b>	0.999920118		
<b>Elevation Adjust. Factor</b>	0.9999885010		
<b>Combined Adjust. Factor</b>	0.9999086199		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 114 WEST, LOCATED IN CALMER, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.86 KM (0.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 35.60 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 14.95 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130018A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 774.771 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: AHTD MON 1</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: K 124</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on BM917 from Job 070132 from Job 070088</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130019	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 79	<b>Job Number:</b> 001942
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	546,334.3841				
<b>Easting (M)</b>	381,661.5430				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,792,432.0585				
<b>Easting (SFT)</b>	1,252,167.9123				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	6	39.9232001
<b>Scale Factor</b>	0.999918827		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 2.00 SIGN POST	268	5.55	18.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 480016	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 59 9.1650912
<b>Longitude</b>	92 11 54.5432460
<b>Ellipsoid Height (M):</b>	47.233
<b>Geoid Height (M):</b>	-25.757

Location Description
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	130019A
<b>Geodetic Azimuth</b>	180 07 36
<b>Grid Azimuth</b>	180 14 16

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130019A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 79	<b>Job Number:</b> 001942
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	545,799.5230	
<b>Easting (M)</b>	381,659.3230	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,790,677.2684	
<b>Easting (SFT)</b>	1,252,160.6289	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	39.9489967
<b>Scale Factor</b>	0.999918901		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.66 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    480016</p> <p>Ref Mon # 2    AHTD HOPE 1</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130020	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 79	<b>Job Number:</b> 001942
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	551,300.7450	
<b>Easting (M)</b>	381,656.6940	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,808,725.8609	
<b>Easting (SFT)</b>	1,252,152.0036	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	40.2391041
<b>Scale Factor</b>	0.999918472		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    480016</p> <p>Ref Mon # 2    AHTD HOPE 1</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130020A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 79	<b>Job Number:</b> 001942
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	550,311.3430	
<b>Easting (M)</b>	381,651.8860	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,805,479.7978	
<b>Easting (SFT)</b>	1,252,136.2293	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	40.3021136
<b>Scale Factor</b>	0.999918494		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.87 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    480016</p> <p>Ref Mon # 2    AHTD HOPE 1</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130021	<b>Date Monumented</b> 9/22/2006	<b>Monumented By</b> AHTD	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	548,970.5710	
<b>Easting (M)</b>	362,005.4980	
<b>Elevation (M)*</b>	70.626	
<b>Northing (SFT)</b>	1,801,080.9484	
<b>Easting (SFT)</b>	1,187,679.7047	
<b>Elevation (SFT)*</b>	231.713	

  

<b>Convergence Angle</b>	0	13	48.8078062
<b>Scale Factor</b>	0.999918566		
<b>Elevation Adjust. Factor</b>	0.9999889166		
<b>Combined Adjust. Factor</b>	0.9999074835		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Under ground cable marker	034	8.20	26.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, 1ULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130021A	<b>Date Monumented</b> 9/22/2005	<b>Monumented By</b> AHTD	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,544.3520	
<b>Easting (M)</b>	362,032.3000	
<b>Elevation (M)*</b>	69.922	
<b>Northing (SFT)</b>	1,802,963.4282	
<b>Easting (SFT)</b>	1,187,767.6376	
<b>Elevation (SFT)*</b>	229.402	

  

<b>Convergence Angle</b>	0	13	48.2734180
<b>Scale Factor</b>	0.999918531		
<b>Elevation Adjust. Factor</b>	0.9999890271		
<b>Combined Adjust. Factor</b>	0.9999075590		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	195	11.80	38.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130022	<b>Date Monumented</b> 9/22/2005	<b>Monumented By</b> AHTD	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	552,886.8290	
<b>Easting (M)</b>	362,138.1390	
<b>Elevation (M)*</b>	75.142	
<b>Northing (SFT)</b>	1,813,929.5381	
<b>Easting (SFT)</b>	1,188,114.8777	
<b>Elevation (SFT)*</b>	246.530	

  

<b>Convergence Angle</b>	0	13	46.2566315
<b>Scale Factor</b>	0.999918485		
<b>Elevation Adjust. Factor</b>	0.9999882078		
<b>Combined Adjust. Factor</b>	0.9999066938		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	135	7.40	24.3
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</td> </tr> </table>	Comments	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Comments			
3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.			

  

Location Description
To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 7.79 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "130022 2005" set on top of a 4 foot by 5/8 inch rebar and is just below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130023	<b>Date Monumented</b> 12/2/2014	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 63	<b>Job Number:</b> RX0030
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	548,023.6067	
<b>Easting (M)</b>	396,255.5346	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,797,974.1163	
<b>Easting (SFT)</b>	1,300,048.3664	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	21.6736045
<b>Scale Factor</b>	0.999918636		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL FENCE POST	265	0.80	2.6
<b>MK # 2</b>	POWER POLE	180	13.70	44.9
<b>MK # 3</b>	TELEPHONE BOX	175	21.50	70.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> MSB6	34.0005    92.0226  <div style="height: 100px;"></div>

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:**                      GEOID99

**Latitude**                      34    0    4.5465120

**Longitude**                      92    2    25.9263240

**Ellipsoid Height (M):**                      59.585

**Geoid Height (M):**                      -25.793

  

**Location Description**

TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 60 FT. EAST OF THE CENTERLINE OF HWY. 63, AND 2 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130023A	<b>Date Monumented</b> 12/2/2014	<b>Monumented By</b> AHTD	<b>County</b> CLEVELAND	<b>Route</b> 63	<b>Job Number:</b> RX0030
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	547,461.0095				
<b>Easting (M)</b>	396,267.5385				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,796,128.3287				
<b>Easting (SFT)</b>	1,300,087.7492				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	1	21.4069343
<b>Scale Factor</b>	0.999918691		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	190	11.30	37.1
<b>MK # 2</b>	WOODEN FENCE POST	270	0.80	2.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	33.5946    92.0226
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> MSB6	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID99
<b>Latitude</b>	33    59    46.2860160
<b>Longitude</b>	92    2    25.4498640
<b>Ellipsoid Height (M):</b>	56.454
<b>Geoid Height (M):</b>	-25.794

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.8 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 54 FT. EAST OF THE CENTERLINE OF HWY. 63, 2 FT. WEST OF A WITNESS POST, AND 17 FT. SOUTH OF A PAVED FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130024-1	<b>Date Monumented</b> 12/3/2018	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 8	<b>Job Number:</b> 070512
----------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	524,912.7279	0.0020	
<b>Easting (M)</b>	369,182.2726	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,722,151.1748		
<b>Easting (SFT)</b>	1,211,225.5060		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	11	10.5496262
<b>Scale Factor</b>	0.999927337		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	33	47	32.8069824
<b>Longitude</b>	92	19	58.0717956
<b>Ellipsoid Height:</b>	28.800		
<b>Grid Northing (Meters)</b>	524,912.7279		
<b>Grid Easting (Meters)</b>	369,182.2726		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.4 MILES TO STATION ON RIGHT. 21' S OF THE C/L SR-8. THE MARK IS A STANDARD 2½" CAP STAMPED "130024 2018" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SE COR O BRF	287	5.79	19.0	130024A
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARCM	ELEV. WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT
Ref Mon # 2    ARMO	
Ref Mon # 3    ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130024A-1	<b>Date Monumented</b> 12/3/2018	<b>Monumented By</b> AHTD	<b>County</b> CALHOUN	<b>Route</b> 8	<b>Job Number:</b> 070512
-----------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	524,977.2903	0.0020			
<b>Easting (M)</b>	369,678.3942	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,722,362.9933				
<b>Easting (SFT)</b>	1,212,853.1983				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	10	59.7592986
<b>Scale Factor</b>	0.999927293		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	33	47	34.9545048
<b>Longitude</b>	92	19	38.7927048
<b>Ellipsoid Height:</b>	27.800		
<b>Grid Northing (Meters)</b>	524,977.2903		
<b>Grid Easting (Meters)</b>	369,678.3942		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.7 MILES TO STATION ON RIGHT. 18.4' S OF THE C/L SR-8. 28' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "130024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	311	24.05	78.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	<p>SUPERCEDED ELEV. (GEOID HT. -26.0201m) WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO &amp; ARPB AND ON 2ND ORDER NGS BM's J 91 &amp; T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS.</p> <p>*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT</p>
Ref Mon # 2    ARMO	
Ref Mon # 3    ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130025-1	<b>Date Monumented</b> 12/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 07X138
----------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	506,667.9603	0.0020	
<b>Easting (M)</b>	335,541.7109	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,662,293.1331		
<b>Easting (SFT)</b>	1,100,856.4298		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	19.8093911
<b>Scale Factor</b>	0.999943664		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	248	8.60	28.2
MK # 2	RR SWITCH	30	28.41	93.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARMO Ref Mon # 3    ARGS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           *****NOTE*****THIS            GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND            INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT            UPDATED FROM 130024 TO 130025-1         </td> </tr> </table>	Comments	*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025-1
Comments			
*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025-1			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 205N AND STATE HIGHWAY 274, EAST OF EAST CAMDEN, GO EAST ON HIGHWAY 274 0.25 MILES TO THE MARK ON THE RIGHT, WEST 31.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 130025" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	130025A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130025A-1	<b>Date Monumented</b> 12/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 07X138
-----------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	506,202.9944	0.0020	
<b>Easting (M)</b>	335,654.6946	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,660,767.6575		
<b>Easting (SFT)</b>	1,101,227.1105		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	17.2874544
<b>Scale Factor</b>	0.999944183		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	135	4.18	13.7
<b>MK # 2</b>	SOUTHEAST CORNER I-S-B BLDING	282	20.85	68.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	<p>*****NOTE*****THIS</p> <p>GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025A-1</p>
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> ARGS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130026-1	<b>Date Monumented</b> 12/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 07X134
----------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	505,386.5769	0.0020	
<b>Easting (M)</b>	343,803.8167	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,658,089.1277		
<b>Easting (SFT)</b>	1,127,963.0220		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	20	20.2251248
<b>Scale Factor</b>	0.999945050		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION POLE	282	24.90	81.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> ARGS	*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026-1

  

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33   36   55.2423960
<b>Longitude</b>	92   36   20.1776472
<b>Ellipsoid Height (M):</b>	36.704   0.0070
<b>Geoid Height (M):</b>	-26.143   0.0070

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 203S AND STATE HIGHWAY 274, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 3.05 MILES TO THE MARK ON THE RIGHT, NORTH 24.8' OF THE C/L OF THE HIGHWAY AND 32.2' WEST OF A PRIVATE ROAD. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	130026A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130026A-1	<b>Date Monumented</b> 12/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> CALHOUN	<b>Route</b> 274	<b>Job Number:</b> 07X134
-----------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	505,366.0038 0.0020
<b>Easting (M)</b>	344,300.1093 0.0020
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	1,658,021.6308
<b>Easting (SFT)</b>	1,129,591.2753
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	20	9.4464211
<b>Scale Factor</b>	0.999945070		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION POLE	282	39.84	130.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	<p>*****NOTE*****THIS</p> <p>GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026A-1</p>
Ref Mon # 2 ARMO	
Ref Mon # 3 ARGS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140001	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,691.1609	
<b>Easting (M)</b>	268,465.0376	
<b>Elevation (M)*</b>	78.242	
<b>Northing (SFT)</b>	1,567,225.0837	
<b>Easting (SFT)</b>	880,789.0442	
<b>Elevation (SFT)*</b>	256.698	

  

<b>Convergence Angle</b>	0	47	27.6555355
<b>Scale Factor</b>	0.999987458		
<b>Elevation Adjust. Factor</b>	0.9999877215		
<b>Combined Adjust. Factor</b>	0.9999751796		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	21	32.2118388
<b>Longitude</b>	93	24	47.8967400
<b>Ellipsoid Height:</b>	51.177		
<b>Grid Northing (Meters)</b>	477,691.5011		
<b>Grid Easting (Meters)</b>	268,465.3710		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END OF PARAPET WALL	260	4.75	15.6
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	90	13.00	42.7
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> SHRV	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33    21    32.2006464
<b>Longitude</b>	93    24    47.9094516
<b>Ellipsoid Height (M):</b>	51.723
<b>Geoid Height (M):</b>	-26.521

  

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER. GO EAST ON HWY. 82 FOR 2.09 KM (1.30 MILES) TO A BRIDGE AT THE LAFAYETTE AND COLUMBIA COUNTY LINE AND THE STATION ON THE NORTHEAST CORNER BEHIND THE GUARD RAIL. THE STATION IS 8.1 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140001" SET ON TOP OF A REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140002	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	476,663.4801	
<b>Easting (M)</b>	274,759.3730	
<b>Elevation (M)*</b>	95.401	
<b>Northing (SFT)</b>	1,563,853.4343	
<b>Easting (SFT)</b>	901,439.7096	
<b>Elevation (SFT)*</b>	312.995	

  

<b>Convergence Angle</b>	0	45	11.1105035
<b>Scale Factor</b>	0.999989203		
<b>Elevation Adjust. Factor</b>	0.9999850287		
<b>Combined Adjust. Factor</b>	0.9999742319		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTH MAGNOLIA, GO WEST ON HWY. 82 FOR 11.49 KM (7.14 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 8.3 METERS SOUTH OF THE SOUTHERN MOST RAIL OF A RAILROAD TRACK AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				140002A	
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> BEECH	Old ZC=93.384 M, **MONUMENT NOT FOUND IN MAY OF 2012**

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140002A	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	476,581.6762	
<b>Easting (M)</b>	275,383.2992	
<b>Elevation (M)*</b>	89.816	
<b>Northing (SFT)</b>	1,563,585.0493	
<b>Easting (SFT)</b>	903,486.7075	
<b>Elevation (SFT)*</b>	294.673	

  

<b>Convergence Angle</b>	0	44	57.5826263
<b>Scale Factor</b>	0.999989340		
<b>Elevation Adjust. Factor</b>	0.9999859051		
<b>Combined Adjust. Factor</b>	0.9999752452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	20	59.2224648
<b>Longitude</b>	93	20	19.7603304
<b>Ellipsoid Height:</b>	62.805		
<b>Grid Northing (Meters)</b>	476,582.0652		
<b>Grid Easting (Meters)</b>	275,383.6580		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET GRATE	260	5.60	18.4
MK # 2	WEST EDGE OF CONCRETE ISLAND CURB	270	7.00	23.0
MK # 3	EAST EDGE OF CONCRETE ISLAND CURB	90	6.20	20.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARHP	<p>*****Old ZC = 89.867 M*****</p> <p>*****Old ZC = 89.882 M*****</p> <p>UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Ref Mon # 2    ARCM	
Ref Mon # 3    SHRV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33    20    59.2096884
<b>Longitude</b>	93    20    19.7740104
<b>Ellipsoid Height (M):</b>	63.361
<b>Geoid Height (M):</b>	-26.456

  

Location Description
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 10.90 KM (6.77 MILES) TO THE JCT. OF HWY. 82 AND HWY. 98 (WHICH LEADS EAST TO THE TOWN OF WALDO) AND THE STATION ON THE RIGHT IN A LARGE GRASSY ISLAND SEPARATING THE TWO LANES OF HWY. 98. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140003	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	474,147.5753	
<b>Easting (M)</b>	278,438.2638	
<b>Elevation (M)*</b>	103.684	
<b>Northing (SFT)</b>	1,555,599.1700	
<b>Easting (SFT)</b>	913,509.5372	
<b>Elevation (SFT)*</b>	340.169	

  

<b>Convergence Angle</b>	0	43	50.7869435
<b>Scale Factor</b>	0.999993874		
<b>Elevation Adjust. Factor</b>	0.9999837289		
<b>Combined Adjust. Factor</b>	0.9999776030		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	19	41.4998184
<b>Longitude</b>	93	18	20.4182964
<b>Ellipsoid Height:</b>	76.780		
<b>Grid Northing (Meters)</b>	474,147.9091		
<b>Grid Easting (Meters)</b>	278,438.5730		

  

Location Description			
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 6.51 KM (4.05 MILES) TO THE STATION ON THE RIGHT IN FRONT OF "DELTIC CORP." TIMBER OPERATION. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 25.8 METERS NORTHWEST OF THE CENTER OF A GRAVEL COUNTY ROAD AND 1.10 METERS SOUTHWEST OF A WITNESS POST SET ALONG A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE CORNER POST	30	1.20	3.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARHP	<p>**PREVIOUS ELEV. (103.760 m) FROM UNDOCUMENTED SOURCE**            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Ref Mon # 2: ARCM	
Ref Mon # 3: SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140003A	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	474,586.6987		
<b>Easting (M)</b>	277,859.4123		
<b>Elevation (M)*</b>	106.910		
<b>Northing (SFT)</b>	1,557,039.8607		
<b>Easting (SFT)</b>	911,610.4219		
<b>Elevation (SFT)*</b>	350.753		

  

<b>Convergence Angle</b>	0	44	3.4346176
<b>Scale Factor</b>	0.999993046		
<b>Elevation Adjust. Factor</b>	0.9999832226		
<b>Combined Adjust. Factor</b>	0.9999762688		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	19	55.5114540
<b>Longitude</b>	93	18	43.0158816
<b>Ellipsoid Height:</b>	79.929		
<b>Grid Northing (Meters)</b>	474,587.0191		
<b>Grid Easting (Meters)</b>	277,859.7220		

  

Location Description			
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 7.24 KM (4.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 20.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82, 38.5 METERS NORTHWEST OF A FIELD ENTRANCE, 9.2 METERS NORTHEAST OF A FENCE LINE AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	140003
			Meters	Feet		
MK # 1	NONE				Geodetic Azimuth	
MK # 2	NONE					
MK # 3	NONE					
					Grid Azimuth	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHP	<p>**PREVIOUS ELEV. (106.945 m) FROM UNDOCUMENTED SOURCE**            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Ref Mon # 2: ARCM	
Ref Mon # 3: SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140004	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	471,371.7886	
<b>Easting (M)</b>	281,651.4759	
<b>Elevation (M)*</b>	81.227	
<b>Northing (SFT)</b>	1,546,492.2764	
<b>Easting (SFT)</b>	924,051.5505	
<b>Elevation (SFT)*</b>	266.493	

  

<b>Convergence Angle</b>	0	42	40.5095469
<b>Scale Factor</b>	0.999999224		
<b>Elevation Adjust. Factor</b>	0.9999872530		
<b>Combined Adjust. Factor</b>	0.9999864770		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	18	12.7202184
<b>Longitude</b>	93	16	14.8538568
<b>Ellipsoid Height:</b>	54.351		
<b>Grid Northing (Meters)</b>	471,372.1111		
<b>Grid Easting (Meters)</b>	281,651.7780		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF PARAPET WALL	110	4.40	14.4
MK # 2	NORTHWEST CORNER OF PARAPET WALL	46	15.50	50.9
MK # 3	NONE			

  

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> <p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE**            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY            DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS            USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV.            FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC            ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p> </td> </tr> </table>	Comments	<p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE**            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY            DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS            USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV.            FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC            ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
<p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE**            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY            DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS            USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV.            FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC            ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>											

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33 18 12.7096308
<b>Longitude</b>	93 16 14.8653804
<b>Ellipsoid Height (M):</b>	54.856
<b>Geoid Height (M):</b>	-26.369

  

Location Description
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 2.17 KM (1.35 MILES) TO A BRIDGE OVER "BIG CREEK" AND THE STATION ON THE SOUTHWEST END OF THE BRIDGE BEHIND THE GUARD RAIL. THE STATION IS 7.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140004A	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	471,988.1001	
<b>Easting (M)</b>	280,968.9160	
<b>Elevation (M)*</b>	88.680	
<b>Northing (SFT)</b>	1,548,514.2917	
<b>Easting (SFT)</b>	921,812.1852	
<b>Elevation (SFT)*</b>	290.944	

  

<b>Convergence Angle</b>	0	42	55.4419089
<b>Scale Factor</b>	0.999998020		
<b>Elevation Adjust. Factor</b>	0.99999860834		
<b>Combined Adjust. Factor</b>	0.99999841034		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS LINE MARKER	85	11.60	38.1
<b>MK # 2</b>	NBC IN 6" PINE TREE	343	18.30	60.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	MONUMENT NOT FOUND IN MAY OF 2012
<b>Ref Mon # 2</b> MAGAPORT	
<b>Ref Mon # 3</b> BEECH	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140005A	<b>Date Monumented</b> 9/10/2001	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> N/A	<b>Job Number:</b> 070177,070304
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	467,438.2031	
<b>Easting (M)</b>	285,916.4540	
<b>Elevation (M)*</b>	100.749	
<b>Northing (SFT)</b>	1,533,586.8380	
<b>Easting (SFT)</b>	938,044.2328	
<b>Elevation (SFT)*</b>	330.540	

  

<b>Convergence Angle</b>	0	41	7.2263781
<b>Scale Factor</b>	1.000007131		
<b>Elevation Adjust. Factor</b>	0.9999841895		
<b>Combined Adjust. Factor</b>	0.9999913204		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE COLUMBIA COUNTY COURT HOUSE, LOCATED IN MAGNOLIA, GO EAST ON U.S. HIGHWAY 82B (MAIN STREET) FOR 1.448 KM (0.9 MI) TO FREDRICK STREET. TURN LEFT (NORTH) ON N. FREDRICK STREET FOR 0.193 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.80 METERS WEST OF THE CENTER OF FREDRICK STREET, 10.50 METERS SOUTH OF THE CENTER OF KROGER SHOPPING CENTER ENTRANCE, AND 1.820 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "140005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.432 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	2	19.80	65.0
MK # 2	LIGHT POLE	334	36.80	120.7
MK # 3	LIGHT POLE	255	13.20	43.3

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    S 197</p> <p><b>Ref Mon # 2</b>    MOSS</p> <p><b>Ref Mon # 3</b>    AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire levels ran in Job 070177 by S5101 in 05/2002 from NGS H120. Verified March 2009 by Crew S5110 with Digital Levels from 2nd Order NGS mark Magnolia RM 2.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140006	<b>Date Monumented</b> 5/19/2008	<b>Monumented By</b> AHTD	<b>County</b> Columbia	<b>Route</b> 79	<b>Job Number:</b> 070301
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,742.5301	
<b>Easting (M)</b>	289,387.1140	
<b>Elevation (M)*</b>	109.826	
<b>Northing (SFT)</b>	1,567,393.6175	
<b>Easting (SFT)</b>	949,430.8898	
<b>Elevation (SFT)*</b>	360.321	

  

<b>Convergence Angle</b>	0	39	54.7621951
<b>Scale Factor</b>	0.999986876		
<b>Elevation Adjust. Factor</b>	0.9999827650		
<b>Combined Adjust. Factor</b>	0.9999696412		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with guy wire	182	18.17	59.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> TXMA <b>Ref Mon # 3</b> ARCM	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    21    42.4977624
<b>Longitude</b>	93    11    18.7243944
<b>Ellipsoid Height (M):</b>	83.475
<b>Geoid Height (M):</b>	-26.351

Location Description
To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.50 miles to the station on the left. 45.5 feet east of the center of hwy-79, 71.0 feet north of the center of a gravel drive and 8.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "140006 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140006A	<b>Date Monumented</b> 5/19/2008	<b>Monumented By</b> AHTD	<b>County</b> Columbia	<b>Route</b> 79	<b>Job Number:</b> 070301
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	478,320.6451	
<b>Easting (M)</b>	289,508.1330	
<b>Elevation (M)*</b>	117.986	
<b>Northing (SFT)</b>	1,569,290.3165	
<b>Easting (SFT)</b>	949,827.9330	
<b>Elevation (SFT)*</b>	387.092	

  

<b>Convergence Angle</b>	0	39	52.2875357
<b>Scale Factor</b>	0.999985818		
<b>Elevation Adjust. Factor</b>	0.9999814845		
<b>Combined Adjust. Factor</b>	0.9999673028		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	power pole w/guy	10	30.54	100.2
<b>MK # 2</b>	Service pole	245	4.15	13.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> TXMA	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    22    1.3070640
<b>Longitude</b>	93    11    14.3029176
<b>Ellipsoid Height (M):</b>	91.633
<b>Geoid Height (M):</b>	-26.353

Location Description
<p>To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.20 miles to the station on the right. 46.0 feet west of the center of hwy-79, 67.4 feet north of a paved drive and 35.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "140006A 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140007	<b>Date Monumented</b> 5/19/2008	<b>Monumented By</b> AHTD	<b>County</b> Columbia	<b>Route</b> NA	<b>Job Number:</b> 070301,070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,450.6671	
<b>Easting (M)</b>	293,340.9240	
<b>Elevation (M)*</b>	68.069	
<b>Northing (SFT)</b>	1,579,559.3970	
<b>Easting (SFT)</b>	962,402.6815	
<b>Elevation (SFT)*</b>	223.323	

  

<b>Convergence Angle</b>	0	38	30.0688097
<b>Scale Factor</b>	0.999980174		
<b>Elevation Adjust. Factor</b>	0.9999893179		
<b>Combined Adjust. Factor</b>	0.9999694921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.30 miles on co. rd 62 to the station on the left. 28.0 feet north of the center of co. road 62 and 1.50 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> TXMA	<b>Comments</b>  Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140007A	<b>Date Monumented</b> 5/19/2008	<b>Monumented By</b> AHTD	<b>County</b> Columbia	<b>Route</b> NA	<b>Job Number:</b> 070301,070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,415.9401	
<b>Easting (M)</b>	293,776.9950	
<b>Elevation (M)*</b>	74.217	
<b>Northing (SFT)</b>	1,579,445.4635	
<b>Easting (SFT)</b>	963,833.3578	
<b>Elevation (SFT)*</b>	243.494	

  

<b>Convergence Angle</b>	0	38	20.6165904
<b>Scale Factor</b>	0.999980226		
<b>Elevation Adjust. Factor</b>	0.9999883531		
<b>Combined Adjust. Factor</b>	0.9999685793		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Cross tie post	329	3.20	10.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> TXMA	Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

  

<b>Vertical Determined By:</b> 3rd Order-3WR	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33    23    43.3467852
<b>Longitude</b>	93    8    30.5143332
<b>Ellipsoid Height (M):</b>	47.881
<b>Geoid Height (M):</b>	-26.336

  

Location Description
To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.60 miles on co. rd 62 to the station on the right about 10 feet above the road surface on top of a high bank. 36.7 feet south of the center of co. road 62 and 10.0 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140008	<b>Date Monumented</b> 5/20/2008	<b>Monumented By</b> AHTD	<b>County</b> Columbia	<b>Route</b> NA	<b>Job Number:</b> 070301
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,812.7741	
<b>Easting (M)</b>	294,098.5300	
<b>Elevation (M)*</b>	66.982	
<b>Northing (SFT)</b>	1,574,185.7430	
<b>Easting (SFT)</b>	964,888.2605	
<b>Elevation (SFT)*</b>	219.757	

  

<b>Convergence Angle</b>	0	38	13.2672174
<b>Scale Factor</b>	0.999983041		
<b>Elevation Adjust. Factor</b>	0.9999894885		
<b>Combined Adjust. Factor</b>	0.9999725296		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	95	26.52	87.0
MK # 2	48 inch white oak	277	40.54	133.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> TXMA	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    22    51.4291584
<b>Longitude</b>	93    8    17.3832000
<b>Ellipsoid Height (M):</b>	40.656
<b>Geoid Height (M):</b>	-26.326

Location Description
To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.70 miles on co. rd 62 to a gravel road on the right, turn right and go 1.0 miles to a gate and dim track road on the left, turn left and go 0.05 mile on dim track road to the station mark in the middle of the road. 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "140008 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.50 feet below the surface

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140009	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 79	<b>Job Number:</b> 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,479.0259	
<b>Easting (M)</b>	287,017.7637	
<b>Elevation (M)*</b>	108.002	
<b>Northing (SFT)</b>	1,543,563.2708	
<b>Easting (SFT)</b>	941,657.4464	
<b>Elevation (SFT)*</b>	354.335	

  

<b>Convergence Angle</b>	0	40	44.1903886
<b>Scale Factor</b>	1.000000879		
<b>Elevation Adjust. Factor</b>	0.9999830513		
<b>Combined Adjust. Factor</b>	0.9999839303		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	93	2.19	7.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
--	--

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 17 45.8468448
<b>Longitude</b>	93 12 47.0378052
<b>Ellipsoid Height (M):</b>	81.589
<b>Geoid Height (M):</b>	-26.425

Location Description
THE STATION MARK IS LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF STATE HIGHWAY 82W AND 79, NORTHEAST OF MAGNOLIA, 91.0 FEET SOUTHWEST OF THE SOUTH EDGE OF PAVEMENT OF HIGHWAY 82, 72.0 FEET NORTHWEST OF CENTERLINE OF HIGHWAY 79, 5.3 FEET WEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140009 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140009A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 79	<b>Job Number:</b> 070365
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,981.4309	
<b>Easting (M)</b>	286,934.8227	
<b>Elevation (M)*</b>	107.807	
<b>Northing (SFT)</b>	1,541,930.7445	
<b>Easting (SFT)</b>	941,385.3308	
<b>Elevation (SFT)*</b>	353.698	

  

<b>Convergence Angle</b>	0	40	45.8568770
<b>Scale Factor</b>	1.000001884		
<b>Elevation Adjust. Factor</b>	0.9999830818		
<b>Combined Adjust. Factor</b>	0.9999849658		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	353	1.04	3.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140010	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82B	<b>Job Number:</b> 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	467,072.0520	
<b>Easting (M)</b>	286,488.0040	
<b>Elevation (M)*</b>	86.318	
<b>Northing (SFT)</b>	1,532,385.5573	
<b>Easting (SFT)</b>	939,919.3931	
<b>Elevation (SFT)*</b>	283.195	

  

<b>Convergence Angle</b>	0	40	54.7726933
<b>Scale Factor</b>	1.000007881		
<b>Elevation Adjust. Factor</b>	0.9999864541		
<b>Combined Adjust. Factor</b>	0.9999943350		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	265	1.49	4.9
MK # 2	LIGHT POLE	181	9.75	32.0
MK # 3	TELEPHONE BOX	125	30.48	100.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140010A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	466,852.9674	
<b>Easting (M)</b>	287,027.4654	
<b>Elevation (M)*</b>	85.836	
<b>Northing (SFT)</b>	1,531,666.7772	
<b>Easting (SFT)</b>	941,689.2761	
<b>Elevation (SFT)*</b>	281.614	

  

<b>Convergence Angle</b>	0	40	43.0514599
<b>Scale Factor</b>	1.000008327		
<b>Elevation Adjust. Factor</b>	0.9999865297		
<b>Combined Adjust. Factor</b>	0.9999948566		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	108	1.46	4.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 15 48.1614552
<b>Longitude</b>	93 12 45.0028800
<b>Ellipsoid Height (M):</b>	59.461
<b>Geoid Height (M):</b>	-26.403

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK ON THE LEFT, WEST 12.0 FEET OF CENTERLINE OF DRIVE , NORTH 76.0 FEET OF CENTERLINE HIGHWAY 82, SOUTH 84.8 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140010A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140011	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,587.3254	
<b>Easting (M)</b>	291,135.8030	
<b>Elevation (M)*</b>	105.229	
<b>Northing (SFT)</b>	1,527,514.4167	
<b>Easting (SFT)</b>	955,168.0470	
<b>Elevation (SFT)*</b>	345.240	

  

<b>Convergence Angle</b>	0	39	13.9034467
<b>Scale Factor</b>	1.000010901		
<b>Elevation Adjust. Factor</b>	0.9999834864		
<b>Combined Adjust. Factor</b>	0.9999943872		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	79	23.32	76.5
MK # 2	COMBINATION POLE	287	18.71	61.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140011A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,533.5560	
<b>Easting (M)</b>	291,806.7289	
<b>Elevation (M)*</b>	98.283	
<b>Northing (SFT)</b>	1,527,338.0083	
<b>Easting (SFT)</b>	957,369.2431	
<b>Elevation (SFT)*</b>	322.450	

  

<b>Convergence Angle</b>	0	38	59.3844931
<b>Scale Factor</b>	1.000010999		
<b>Elevation Adjust. Factor</b>	0.9999845764		
<b>Combined Adjust. Factor</b>	0.9999955753		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	275	18.07	59.3
MK # 2	COMBINATION POLE WITH GUY	81	12.50	41.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 15 7.1362944
<b>Longitude</b>	93 9 39.7809900
<b>Ellipsoid Height (M):</b>	71.907
<b>Geoid Height (M):</b>	-26.367

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 3.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 55.0 FEET OF CENTERLINE HIGHWAY 82, SOUTH 5.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140011A 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140012	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,343.2954	
<b>Easting (M)</b>	295,754.6153	
<b>Elevation (M)*</b>	95.501	
<b>Northing (SFT)</b>	1,526,713.7950	
<b>Easting (SFT)</b>	970,321.6004	
<b>Elevation (SFT)*</b>	313.322	

  

<b>Convergence Angle</b>	0	37	33.9841848
<b>Scale Factor</b>	1.000011311		
<b>Elevation Adjust. Factor</b>	0.9999850130		
<b>Combined Adjust. Factor</b>	0.9999963239		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140012A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,340.5068	
<b>Easting (M)</b>	296,445.4314	
<b>Elevation (M)*</b>	83.310	
<b>Northing (SFT)</b>	1,526,704.6461	
<b>Easting (SFT)</b>	972,588.0529	
<b>Elevation (SFT)*</b>	273.326	

  

<b>Convergence Angle</b>	0	37	19.0479442
<b>Scale Factor</b>	1.000011300		
<b>Elevation Adjust. Factor</b>	0.9999869261		
<b>Combined Adjust. Factor</b>	0.9999982260		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	78	38.71	127.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 6.2 MILES TO THE STATION MARK ON THE LEFT, EAST 83.0 FEET OF CENTERLINE OF GRAVEL DRIVEWAY, NORTH 6.3 FEET FROM NORTH EDGE OF PAVEMENT OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140012A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140013	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,130.0320	
<b>Easting (M)</b>	301,044.7961	
<b>Elevation (M)*</b>	91.832	
<b>Northing (SFT)</b>	1,526,014.1133	
<b>Easting (SFT)</b>	987,677.8019	
<b>Elevation (SFT)*</b>	301.284	

  

<b>Convergence Angle</b>	0	35	39.5609722
<b>Scale Factor</b>	1.000011645		
<b>Elevation Adjust. Factor</b>	0.9999855888		
<b>Combined Adjust. Factor</b>	0.9999972337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	120	17.37	57.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

  

**Vertical Determined By:** None

**Elevation Datum:**

**Geoid Datum:** Geoid09

**Latitude** 33 14 57.2947512

**Longitude** 93 3 42.7560732

**Ellipsoid Height (M):** 65.502

**Geoid Height (M):** -26.325

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 9.05 MILES TO THE STATION MARK ON THE RIGHT, WEST 36.6 FEET OF CENTERLINE OF COUNTY ROAD 34, SOUTH 52.0 FEET FROM CENTERLINE OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140013 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140013A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 070365
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,139.1280	
<b>Easting (M)</b>	302,005.9105	
<b>Elevation (M)*</b>	91.709	
<b>Northing (SFT)</b>	1,526,043.9558	
<b>Easting (SFT)</b>	990,831.0580	
<b>Elevation (SFT)*</b>	300.882	

  

<b>Convergence Angle</b>	0	35	18.7837168
<b>Scale Factor</b>	1.000011605		
<b>Elevation Adjust. Factor</b>	0.9999856081		
<b>Combined Adjust. Factor</b>	0.9999972129		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	314	16.15	53.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140014	<b>Date Monumented</b> 5/8/2012	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 07ST01
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	476,838.0919	
<b>Easting (M)</b>	270,632.5546	
<b>Elevation (M)*</b>	92.202	
<b>Northing (SFT)</b>	1,564,426.3065	
<b>Easting (SFT)</b>	887,900.3062	
<b>Elevation (SFT)*</b>	302.499	

  

<b>Convergence Angle</b>	0	46	40.4851331
<b>Scale Factor</b>	0.999988981		
<b>Elevation Adjust. Factor</b>	0.9999855307		
<b>Combined Adjust. Factor</b>	0.9999745119		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO .GO WEST ON HIGHWAY 82,0.3 MILES TO THE STATION ON THE RIGHT. WEST 128 FEET OF THE CENTER LINE OF COUNTY ROAD 131, 36.6 FEET NORTH OF THE CENTER LINE OF HIGHWAY 82,SOUTH 8.0 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARHP</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    SHRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140014A	<b>Date Monumented</b> 5/10/2012	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 07ST01
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	476,776.4760	
<b>Easting (M)</b>	271,196.5619	
<b>Elevation (M)*</b>	95.254	
<b>Northing (SFT)</b>	1,564,224.1550	
<b>Easting (SFT)</b>	889,750.7202	
<b>Elevation (SFT)*</b>	312.511	

  

<b>Convergence Angle</b>	0	46	28.2592311
<b>Scale Factor</b>	0.999989081		
<b>Elevation Adjust. Factor</b>	0.9999850518		
<b>Combined Adjust. Factor</b>	0.9999741330		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	170	3.05	10.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARHP	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
Ref Mon # 2 ARCM	
Ref Mon # 3 SHRV	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33 21 3.7250064
<b>Longitude</b>	93 23 1.7860056
<b>Ellipsoid Height (M):</b>	68.762
<b>Geoid Height (M):</b>	-26.492

  

Location Description
<p>TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO, IN THE SOUTH EAST CORNER OF THE INTERSECTION. SOUTH 81.6 FEET OF THE CENTER LINE OF HIGHWAY 82, EAST 46.7 FEET OF THE CENTER LINE OF HIGHWAY 344E, NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140015	<b>Date Monumented</b> 5/8/2012	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 07ST01
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAVD 88	
<b>Northing (M)</b>	476,663.1747	
<b>Easting (M)</b>	274,758.9103	
<b>Elevation (M)*</b>	95.203	
<b>Northing (SFT)</b>	1,563,852.4323	
<b>Easting (SFT)</b>	901,438.1915	
<b>Elevation (SFT)*</b>	312.344	

  

<b>Convergence Angle</b>	0	45	11.1204309
<b>Scale Factor</b>	0.999989203		
<b>Elevation Adjust. Factor</b>	0.9999850598		
<b>Combined Adjust. Factor</b>	0.9999742630		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98 , WEST OF WALDO, GO WEST ON HIGHWAY 82, 0.4 MILES TO THE STATION ON THE RIGHT.SOUTH 27.6 FEET OF THE NEAREST RAIL, NORTH 70.2 FEET OF THE CENTERLINE OF HIGHWAY 82 .SOUTH 3.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140015 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARHP</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    SHRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140016	<b>Date Monumented</b> 5/8/2012	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> 82	<b>Job Number:</b> 07ST01
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	470,775.7394	
<b>Easting (M)</b>	282,395.5832	
<b>Elevation (M)*</b>	81.641	
<b>Northing (SFT)</b>	1,544,536.7383	
<b>Easting (SFT)</b>	926,492.8425	
<b>Elevation (SFT)*</b>	267.851	

  

<b>Convergence Angle</b>	0	42	24.2531164
<b>Scale Factor</b>	1.000000396		
<b>Elevation Adjust. Factor</b>	0.9999871880		
<b>Combined Adjust. Factor</b>	0.9999875840		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH EAST GATE POST	220	19.51	64.0
<b>MK # 2</b>	FIRE HYDRANT	218	19.20	63.0
<b>MK # 3</b>	GAS LINE VENT	168	23.16	76.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> SHRV	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33 17 53.6629308
<b>Longitude</b>	93 15 45.8199972
<b>Ellipsoid Height (M):</b>	55.279
<b>Geoid Height (M):</b>	-26.360

  

Location Description
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 WEST AND STATE HIGHWAY 371 , SOUTH OF MAGNOLIA, GO WEST ON HIGHWAY 82, 0.7 MILES TO THE STATION ON THE LEFT.SOUTHEAST 23.5 FEET OF THE CENTER LINE OF A FIELD ROAD.SOUTHWEST 36.0 FEET OF THE CENTERLINE OF HIGHWAY 82 . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140016 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140017	<b>Date Monumented</b> 8/14/2017	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> US 371	<b>Job Number:</b> 070444
--------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	468,274.2604	0.0030	
<b>Easting (M)</b>	284,113.6586	0.0030	
<b>Elevation (M)*</b>	89.694		
<b>Northing (SFT)</b>	1,536,329.8027		
<b>Easting (SFT)</b>	932,129.5616		
<b>Elevation (SFT)*</b>	294.270		

  

<b>Convergence Angle</b>	0	41	46.4304030
<b>Scale Factor</b>	1.000005442		
<b>Elevation Adjust. Factor</b>	0.9999859244		
<b>Combined Adjust. Factor</b>	0.9999913663		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT OF US-371 &amp; US-82, SW OF MAGNOLIA, GO NORTH ON US-371 0.6 MILES TO THE STATION ON LEFT, IN ECONOMY INN LAWN. 29.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "140017 2017" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PP W/TRANSFORMER		330	7.32	24.0
MK # 2	FIRE HYDRANT		169	32.61	107.0
MK # 3	E END OF CHLNK FENCE		295	11.58	38.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> SHRV	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140017A	<b>Date Monumented</b> 8/14/2017	<b>Monumented By</b> AHTD	<b>County</b> COLUMBIA	<b>Route</b> US 371	<b>Job Number:</b> 070444
---------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	468,711.2356	0.0030	
<b>Easting (M)</b>	284,070.2985	0.0030	
<b>Elevation (M)*</b>	85.028		
<b>Northing (SFT)</b>	1,537,763.4455		
<b>Easting (SFT)</b>	931,987.3043		
<b>Elevation (SFT)*</b>	278.963		

  

<b>Convergence Angle</b>	0	41	47.4830039
<b>Scale Factor</b>	1.000004543		
<b>Elevation Adjust. Factor</b>	0.9999866565		
<b>Combined Adjust. Factor</b>	0.9999911994		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CP W/LIGHT	64	3.28	10.8
<b>MK # 2</b>	CTR OF DBL CHLNK GATE	6	7.44	24.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> SHRV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    16    47.3223252
<b>Longitude</b>	93    14    40.1227944
<b>Ellipsoid Height (M):</b>	58.574    0.0050
<b>Geoid Height (M):</b>	-26.453    0.0050

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF US-371 &amp; US-82, SW OF MAGNOLIA, GO NORTH ON US-371 0.8 MILES TO THE STATION ON RIGHT. 25' EAST OF THE C/L OF THE HIGHWAY, 23.5' SOUTH OF CTR OF DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "140017A 2017" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140018	<b>Date Monumented</b> 2/24/2020	<b>Monumented By</b> ARDOT	<b>County</b> COLUMBIA	<b>Route</b> 98	<b>Job Number:</b> 070514
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	474,095.2439	0.0030			
<b>Easting (M)</b>	299,387.1047	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,555,427.4794				
<b>Easting (SFT)</b>	982,239.1927				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	17.4463486
<b>Scale Factor</b>	0.999993505		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	348	14.17	46.5
MK # 2	NE END 24" TWIN CMP	323	20.12	66.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARHP Ref Mon # 3    LTEC, SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LAT: N 33-19-48 LONG: W 93-04-51</td> </tr> </table>	Comments	LAT: N 33-19-48 LONG: W 93-04-51
Comments			
LAT: N 33-19-48 LONG: W 93-04-51			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 98 6.3 MILES TO THE MARK ON THE RIGHT, NORTHEAST 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	140018A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140018A	<b>Date Monumented</b> 2/24/2020	<b>Monumented By</b> ARDOT	<b>County</b> COLUMBIA	<b>Route</b> N/A	<b>Job Number:</b> 070514
---------------------------	-------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	474,378.9377	0.0030			
<b>Easting (M)</b>	299,077.4397	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,556,358.2314				
<b>Easting (SFT)</b>	981,223.2334				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	24.2125751
<b>Scale Factor</b>	0.999992969		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	10	10.36	34.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	LAT: N 33-19-57 LONG: W 93-05-03
Ref Mon # 2    ARHP	
Ref Mon # 3    LTEC, SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140019	<b>Date Monumented</b> 2/24/2020	<b>Monumented By</b> ARDOT	<b>County</b> COLUMBIA	<b>Route</b> N/A	<b>Job Number:</b> 070514
--------------------------	-------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	458,397.1668	0.0030			
<b>Easting (M)</b>	300,435.6835	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,503,924.7047				
<b>Easting (SFT)</b>	985,679.4049				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	51.2117570
<b>Scale Factor</b>	1.000026599		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC MARKER	234	19.05	62.5
MK # 2	WATER WELL	319	30.48	100.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	LAT: N 33-11-19 LONG: W 93-04-04
Ref Mon # 2    ARHP	
Ref Mon # 3    LTEC, SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140020	<b>Date Monumented</b> 2/24/2020	<b>Monumented By</b> ARDOT	<b>County</b> COLUMBIA	<b>Route</b> N/A	<b>Job Number:</b> 070514
--------------------------	-------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	460,801.4792	0.0030			
<b>Easting (M)</b>	302,324.0433	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,511,812.8530				
<b>Easting (SFT)</b>	991,874.7987				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	10.9458809
<b>Scale Factor</b>	1.000021093		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.7 MILES TO A GAS LINE RIGHT OF WAY AND TURN LEFT (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SERVICE POLE W/METER LOOP	313			140020A	
MK # 2	POWER POLE W/ TRANSFORMER	353				
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	LAT: N 33-12-37 LONG: W 93-02-52
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 140020A	<b>Date Monumented</b> 2/24/2020	<b>Monumented By</b> ARDOT	<b>County</b> COLUMBIA	<b>Route</b> N/A	<b>Job Number:</b> 070514
---------------------------	-------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	461,211.9252	0.0030			
<b>Easting (M)</b>	302,271.3859	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,513,159.4579				
<b>Easting (SFT)</b>	991,702.0386				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	12.1746514
<b>Scale Factor</b>	1.000020176		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUT AND TRANSFORMER	0	8.17	26.8
MK # 2	GUY	25	10.21	33.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARHP Ref Mon # 3    LTEC, SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LAT: N 33-12-51 LONG: W 93-02-54</td> </tr> </table>	Comments	LAT: N 33-12-51 LONG: W 93-02-54
Comments			
LAT: N 33-12-51 LONG: W 93-02-54			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.5 MILES TO THE MARK ON THE LEFT, EAST 40.5' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150001	<b>Date Monumented</b> 8/26/1996	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> R80092,080494
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	93,561.6161 0.0020
<b>Easting (M)</b>	334,604.4686 0.0020
<b>Elevation (M)*</b>	109.847
<b>Northing (SFT)</b>	306,960.0688
<b>Easting (SFT)</b>	1,097,781.4941
<b>Elevation (SFT)*</b>	360.391

  

<b>Convergence Angle</b>	0 25 3.9366542
<b>Scale Factor</b>	0.999961345
<b>Elevation Adjust. Factor</b>	0.9999827616
<b>Combined Adjust. Factor</b>	0.9999441073

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	10	28.3094940
<b>Longitude</b>	92	43	4.5261768
<b>Ellipsoid Height:</b>	80.826		
<b>Grid Northing (Meters)</b>	93,562.0872		
<b>Grid Easting (Meters)</b>	334,604.6080		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	169	4.37	14.3
MK # 2	PUNCH IN GUARD RAIL POST	137	1.40	4.6
MK # 3	PUNCH IN GUARD RAIL POST	14	3.12	10.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> D 293 <b>Ref Mon # 2</b> P 291 <b>Ref Mon # 3</b> M 49 BM OFFSET	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35 10 28.2941760
<b>Longitude</b>	92 43 4.5315480
<b>Ellipsoid Height (M):</b>	81.292 0.0100
<b>Geoid Height (M):</b>	-28.543

Location Description
THE STATION IS LOCATED ON THE NORTH EDGE OF MORRILTON NEAR THE NORTHWEST CORNER OF THE HWY-9 BRIDGE OVER INTERSTATE 40. 8.0 METERS WEST OF THE CENTER OF HWY-9, 5.20 METERS SOUTH OF THE END OF A METAL DRAIN PIPE, 4.60 METERS NORTH OF THE NORTHWEST END OF THE BRIDGE AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	150001A
<b>Geodetic Azimuth</b>	259 36 19.5376
<b>Grid Azimuth</b>	260 01 23.5292

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150001A	<b>Date Monumented</b> 8/26/1996	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> I-40	<b>Job Number:</b> R80092,080481,080494
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	93,472.7920 0.0020
<b>Easting (M)</b>	334,099.4658 0.0020
<b>Elevation (M)*</b>	103.005
<b>Northing (SFT)</b>	306,668.6518
<b>Easting (SFT)</b>	1,096,124.6640
<b>Elevation (SFT)*</b>	337.942

  

<b>Convergence Angle</b>	0 25 15.5350536
<b>Scale Factor</b>	0.999961448
<b>Elevation Adjust. Factor</b>	0.9999838354
<b>Combined Adjust. Factor</b>	0.9999452840

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2002)		
<b>Latitude</b>	35	10	25.2915420
<b>Longitude</b>	92	43	24.4639668
<b>Ellipsoid Height:</b>	74.579		
<b>Grid Northing (Meters)</b>	93,472.7794		
<b>Grid Easting (Meters)</b>	334,099.4545		

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF HWY-95 AND INTERSTATE 40 IN MORRILTON GO EASTERLY ON I-40 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT NEAR THE 108 EXIT RAMP. 1.14 METERS NORTH-NORTHEAST OF A CHAIN LINK RIGHT OF WAY FENCE AND 0.81 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001A 1996" SET ON TOP OF AN IRON ROD 1.12 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	102	33.57	110.1
MK # 2	COMBINATION POLE	112	35.32	115.9
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> D 293 <b>Ref Mon # 2</b> P 291 <b>Ref Mon # 3</b> M 49 BM OFFSET	Digital lvels were ran from NGS BM: X326 during Job 080841 by crew S5102 in August 2013. ELEV WAS UPDATED FROM 337.93 TO 337.942 DURING JOB 080494 BY S5101 IN SEPT 2014. NEW ELEV IS BASED OFF OF NGS UPDATED 1ST ORDER LEVEL RUN AROUND MORRILTION INCLUDING MARKS UACCM AND PJTC CAMPUS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150002	<b>Date Monumented</b> 8/26/1996	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> R80092,080494
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 95,735.1515	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12A
<b>Easting (M)</b> 336,313.7740	<b>0.0020</b>	<b>Latitude</b> 35 11 39.2229960
<b>Elevation (M)*</b> 117.253		<b>Longitude</b> 92 41 57.5895840
<b>Northing (SFT)</b> 314,091.0762		<b>Ellipsoid Height (M):</b> 88.727 0.0090
<b>Easting (SFT)</b> 1,103,389.4402		<b>Geoid Height (M):</b> -28.523
<b>Elevation (SFT)*</b> 384.687		

  

<b>Convergence Angle</b> 0 24 24.9831837	<b>Scale Factor</b> 0.999958961	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999815996	<b>Combined Adjust. Factor</b> 0.9999405613	TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 10.30 METERS EAST OF THE CENTER OF HWY-9, 1.37 METERS WEST OF A WEB WIRE FENCE AND 1.14 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150002 1996" SET ON TOP OF AN IRON ROD 1.07 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> NAD 83 (1986)		
<b>Latitude</b> 35 11 39.2386236		
<b>Longitude</b> 92 41 57.5844216		
<b>Ellipsoid Height:</b> 88.247		
<b>Grid Northing (Meters)</b> 95,735.6321		
<b>Grid Easting (Meters)</b> 336,313.9080		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	174	21.97	72.1
<b>MK # 2</b>	CONCRETE RIGHT OF WAY MARKER	90	1.28	4.2
<b>MK # 3</b>	WOODEN FENCE POST	0	29.55	96.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> D 293	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
<b>Ref Mon # 2</b> P 291	
<b>Ref Mon # 3</b> M 49 BM OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150002A	<b>Date Monumented</b> 8/26/1996	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> R80092,080494
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 96,369.9958	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12A
<b>Easting (M)</b> 336,308.9672	<b>0.0020</b>	<b>Latitude</b> 35 11 59.8221240
<b>Elevation (M)*</b> 103.032		<b>Longitude</b> 92 41 57.9578640
<b>Northing (SFT)</b> 316,173.8946		<b>Ellipsoid Height (M):</b> 74.507 0.0090
<b>Easting (SFT)</b> 1,103,373.6699		<b>Geoid Height (M):</b> -28.525
<b>Elevation (SFT)*</b> 338.032		

  

<b>Convergence Angle</b> 0 24 25.1974855	<b>Scale Factor</b> 0.999958291	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999838311	<b>Combined Adjust. Factor</b> 0.9999421228	TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 9 AND INTERSTATE 40 IN MORRILTON GO NORTH ON HWY-9 FOR 3.94 KM. (2.45 MI.) TO THE STATION ON THE LEFT. 10.6 METERS WEST OF THE CENTER OF HWY-9 AND 0.84 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mmCAP STAMPED "150002A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> NAD 83 (1986)		
<b>Latitude</b> 35 11 59.8377732		
<b>Longitude</b> 92 41 57.9527088		
<b>Ellipsoid Height:</b> 74.016		
<b>Grid Northing (Meters)</b> 96,370.4771		
<b>Grid Easting (Meters)</b> 336,309.1010		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	187	1.00	3.3
<b>MK # 2</b>	CROSS TIE CORNER POST	271	12.30	40.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> D 293	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
<b>Ref Mon # 2</b> P 291	
<b>Ref Mon # 3</b> M 49 BM OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150003	<b>Date Monumented</b> 9/5/1996	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> R80092,080494
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	100,839.5588	0.0020	
<b>Easting (M)</b>	337,867.4767	0.0020	
<b>Elevation (M)*</b>	113.661		
<b>Northing (SFT)</b>	330,837.7858		
<b>Easting (SFT)</b>	1,108,486.8798		
<b>Elevation (SFT)*</b>	372.901		

  

<b>Convergence Angle</b>	0	23	50.0583568
<b>Scale Factor</b>	0.999953842		
<b>Elevation Adjust. Factor</b>	0.9999821633		
<b>Combined Adjust. Factor</b>	0.9999360061		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	14	25.2273984
<b>Longitude</b>	92	40	57.5663484
<b>Ellipsoid Height:</b>	84.683		
<b>Grid Northing (Meters)</b>	100,840.0621		
<b>Grid Easting (Meters)</b>	337,867.5950		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	35	29.79	97.7
MK # 2	FENCE CORNER POST	280	24.36	79.9
MK # 3	COMBINATION POLE	334	31.20	102.4

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    D 293 Ref Mon # 2    P 291 Ref Mon # 3    M 49 BM OFFSET	<b>Comments</b>  ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
---	--

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12A

**Latitude** 35 14 25.2110400

**Longitude** 92 40 57.5708880

**Ellipsoid Height (M):** 85.154 0.0090

**Geoid Height (M):** -28.486

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 9.09 KM. (5.65 MI.) TO THE STATION ON THE RIGHT. 12.02 METERS EAST-SOUTHEAST OF THE CENTER OF HWY-9 AND 0.56 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	150003A
<b>Geodetic Azimuth</b>	209 29 59.30691
<b>Grid Azimuth</b>	209 53 49.37974

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150004	<b>Date Monumented</b> 9/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 95	<b>Job Number:</b> 080386, 080387
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	93,601.6641	
<b>Easting (M)</b>	332,186.4420	
<b>Elevation (M)*</b>	102.090	
<b>Northing (SFT)</b>	307,091.4596	
<b>Easting (SFT)</b>	1,089,848.3518	
<b>Elevation (SFT)*</b>	334.939	

  

<b>Convergence Angle</b>	0	25	59.5502114
<b>Scale Factor</b>	0.999961320		
<b>Elevation Adjust. Factor</b>	0.9999839791		
<b>Combined Adjust. Factor</b>	0.9999452997		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 95, LOCATED IN THE NORTHWEST PART OF MORRILTON. THE STATION IS 25.836 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 7.896 METERS WEST OF THE CENTER OF STATE HIGHWAY 95 AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	"X" CUT IN SW CORNER OF BRIDGE	347	2.56	8.4		
MK # 2	"X" CUT IN SE CORNER OF BRIDGE	68	15.53	50.9		
MK # 3	"X" CUT IN TO OF A GUARD RAIL POST	140	5.19	17.0		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM U 326 ON 11/2010 AND CHECKED USING GPS ON D 210.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150004A	<b>Date Monumented</b> 9/22/1997	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 247	<b>Job Number:</b> 080113
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	93,518.5941	
<b>Easting (M)</b>	332,992.1380	
<b>Elevation (M)*</b>	103.102	
<b>Northing (SFT)</b>	306,818.9208	
<b>Easting (SFT)</b>	1,092,491.7061	
<b>Elevation (SFT)*</b>	338.260	

  

<b>Convergence Angle</b>	0	25	41.0075450
<b>Scale Factor</b>	0.999961406		
<b>Elevation Adjust. Factor</b>	0.9999838202		
<b>Combined Adjust. Factor</b>	0.9999452268		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	182	63.36	207.9
<b>MK # 2</b>	GUY POLE	237	28.67	94.1
<b>MK # 3</b>	SQUARE CUT IN SW CORNER OF BRIDGE	358	2.58	8.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 150001	
<b>Ref Mon # 2</b> D 293	
<b>Ref Mon # 3</b> 11B AZ MK RESET	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 26.5119636
<b>Longitude</b>	92 44 8.2382784
<b>Ellipsoid Height (M):</b>	74.066
<b>Geoid Height (M):</b>	-29.036

Location Description
<p>THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 247, LOCATED IN THE NORTH PART OF MORRILTON. THE STATION IS 24.54 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 6.33 METERS WEST OF THE CENTER OF STATE HIGHWAY 247, 1.635 METERS SOUTHEAST OF A WEB WIRE FENCE AND 1.19 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	150004
<b>Geodetic Azimuth</b>	275 29 30.35396
<b>Grid Azimuth</b>	275 55 11.45444

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150005	<b>Date Monumented</b> 9/3/2002	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 113	<b>Job Number:</b> 080209
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,187.9411	
<b>Easting (M)</b>	326,859.0190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	302,453.2701	
<b>Easting (SFT)</b>	1,072,369.9648	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	1.7979253
<b>Scale Factor</b>	0.999962971		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.28 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113, 6.25 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PJTC CAMPUS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LITTLE ROCK</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	PJTC CAMPUS	Ref Mon # 3	AHTD LITTLE ROCK	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	RUSSPORT						
Ref Mon # 2	PJTC CAMPUS						
Ref Mon # 3	AHTD LITTLE ROCK						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150005A	<b>Date Monumented</b> 9/3/2002	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 113	<b>Job Number:</b> 080209
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,072.9151	
<b>Easting (M)</b>	327,486.8400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	302,075.8890	
<b>Easting (SFT)</b>	1,074,429.7409	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	27	47.3411104
<b>Scale Factor</b>	0.999963098		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.69 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	203	4.85	15.9	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: RUSSPORT</p> <p>Ref Mon # 2: PJTC CAMPUS</p> <p>Ref Mon # 3: AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150006	<b>Date Monumented</b> 1/11/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 124	<b>Job Number:</b> 080382
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	109,209.9981	
<b>Easting (M)</b>	354,871.1910	
<b>Elevation (M)*</b>	102.001	
<b>Northing (SFT)</b>	358,299.8021	
<b>Easting (SFT)</b>	1,164,273.2325	
<b>Elevation (SFT)*</b>	334.649	

  

<b>Convergence Angle</b>	0	17	19.6753792
<b>Scale Factor</b>	0.999946776		
<b>Elevation Adjust. Factor</b>	0.9999839929		
<b>Combined Adjust. Factor</b>	0.9999307698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285, SOUTHWEST OF DAMASCUS, GO WEST ON 124 FOR 2.5 MILES TO THE STATION MARK ON THE LEFT IN THE CENTER OF A FIELD ROAD GOING TO A GREEN METAL GATE, EAST 34.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 23.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150006 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HINGED END OF GATE	137	6.86	22.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARLR	DIGITAL LEVELS WERE RAN BY CREW S5105 IN APRIL 2010 FROM NGS MARK N 209 AND M 209.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150007	<b>Date Monumented</b> 1/14/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 124	<b>Job Number:</b> 080BR7
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	112,201.7561	
<b>Easting (M)</b>	329,300.2380	
<b>Elevation (M)*</b>	124.338	
<b>Northing (SFT)</b>	368,115.2615	
<b>Easting (SFT)</b>	1,080,379.1975	
<b>Elevation (SFT)*</b>	407.932	

  

<b>Convergence Angle</b>	0	27	9.3021494
<b>Scale Factor</b>	0.999944810		
<b>Elevation Adjust. Factor</b>	0.9999804877		
<b>Combined Adjust. Factor</b>	0.9999252988		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	15	5.85	19.2
<b>MK # 2</b>	CABLE MARKER	126	4.02	13.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 20 31.8413508
<b>Longitude</b>	92 46 39.9735192
<b>Ellipsoid Height (M):</b>	95.888
<b>Geoid Height (M):</b>	-28.450

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.3 MILES TO THE STATION MARK ON THE RIGHT, EAST 52 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150007A	<b>Date Monumented</b> 1/14/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 124	<b>Job Number:</b> 080BR7
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	112,638.3681	
<b>Easting (M)</b>	329,110.5330	
<b>Elevation (M)*</b>	127.907	
<b>Northing (SFT)</b>	369,547.7127	
<b>Easting (SFT)</b>	1,079,756.8070	
<b>Elevation (SFT)*</b>	419.642	

  

<b>Convergence Angle</b>	0	27	13.7534829
<b>Scale Factor</b>	0.999944525		
<b>Elevation Adjust. Factor</b>	0.9999799276		
<b>Combined Adjust. Factor</b>	0.9999244537		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.6 MILES TO THE STATION MARK ON THE LEFT, WEST 41 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH NORTHEAST 32.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/ 3 GUYS	344	14.48	47.5
<b>MK # 2</b>	SERVICE POLE	206	9.90	32.5
<b>MK # 3</b>	CABLE MARKER	350	20.42	67.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARBT</p> <p><b>Ref Mon # 3</b>    ARFY</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150008	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 95	<b>Job Number:</b> 080386, 080387
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,168.9731	
<b>Easting (M)</b>	333,192.4830	
<b>Elevation (M)*</b>	106.441	
<b>Northing (SFT)</b>	325,356.8726	
<b>Easting (SFT)</b>	1,093,149.0046	
<b>Elevation (SFT)*</b>	349.215	

  

<b>Convergence Angle</b>	0	25	37.3688029
<b>Scale Factor</b>	0.999955476		
<b>Elevation Adjust. Factor</b>	0.9999832962		
<b>Combined Adjust. Factor</b>	0.9999387730		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	25	16.37	53.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 13 29.9106552
<b>Longitude</b>	92 44 1.9850604
<b>Ellipsoid Height (M):</b>	77.990
<b>Geoid Height (M):</b>	-28.451

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2. 6 MILES TO THE MARK ON THE RIGHT, 22 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 12.2 FEET WEST OF A FENCE, 63.3 SOUTH OF AN ASPHALT DRIVEWAY AND WEST 12.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150008A	<b>Date Monumented</b> 11/18/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 95	<b>Job Number:</b> 080386, 080387
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,753.9951	
<b>Easting (M)</b>	333,198.7040	
<b>Elevation (M)*</b>	112.505	
<b>Northing (SFT)</b>	327,276.2323	
<b>Easting (SFT)</b>	1,093,169.4147	
<b>Elevation (SFT)*</b>	369.110	

  

<b>Convergence Angle</b>	0	25	37.3259887
<b>Scale Factor</b>	0.999954907		
<b>Elevation Adjust. Factor</b>	0.9999823446		
<b>Combined Adjust. Factor</b>	0.9999372524		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2.9 MILES TO THE MARK ON THE LEFT, 24.2 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 6.9 FEET EAST OF A FENCE, 31 FEET SOUTH OF A FIELD DRIVE AND EAST 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150009	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 213	<b>Job Number:</b> 080386, 080387
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,107.3101	
<b>Easting (M)</b>	333,132.8920	
<b>Elevation (M)*</b>	110.848	
<b>Northing (SFT)</b>	341,558.7332	
<b>Easting (SFT)</b>	1,092,953.4965	
<b>Elevation (SFT)*</b>	363.675	

  

<b>Convergence Angle</b>	0	25	39.5882679
<b>Scale Factor</b>	0.999950937		
<b>Elevation Adjust. Factor</b>	0.9999826046		
<b>Combined Adjust. Factor</b>	0.9999335424		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 213 0.10 MILES TO THE MARK ON THE LEFT, 29.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 13.9 FEET NORTH OF A FENCE, AND NORTH 13.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150009 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARFY</p> <p>Ref Mon # 3    D 210</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150009A	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 213	<b>Job Number:</b> 080386, 080387
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,217.0771	
<b>Easting (M)</b>	332,608.4550	
<b>Elevation (M)*</b>	124.849	
<b>Northing (SFT)</b>	341,918.8605	
<b>Easting (SFT)</b>	1,091,232.9061	
<b>Elevation (SFT)*</b>	409.609	

  

<b>Convergence Angle</b>	0	25	51.6817779
<b>Scale Factor</b>	0.999950846		
<b>Elevation Adjust. Factor</b>	0.9999804075		
<b>Combined Adjust. Factor</b>	0.9999312544		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18 INCH RCP	95	121.13	397.4
<b>MK # 2</b>	5X5 R/W MARKER	275	24.38	80.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> D 210	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150010	<b>Date Monumented</b> 10/14/2013	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 92	<b>Job Number:</b> BR2404
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	116,292.2635 0.0040
<b>Easting (M)</b>	351,898.7901 0.0040
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	381,535.5345	
<b>Easting (SFT)</b>	1,154,521.2805	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	29.0293946
<b>Scale Factor</b>	0.999942230		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 92, EAST OF CENTER RIDGE, GO EAST ON HIGHWAY 92 2.15 MILES TO THE MARK ON THE LEFT, EAST 38 FEET OF THE CENTERLINE OF HEMPHILL ROAD, NORTH 48 FEET OF THE CENTERLINE OF HIGHWAY 92 AND SOUTH 1.0 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 150010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	ARHR
<b>Ref Mon # 2</b>	ARBT
<b>Ref Mon # 3</b>	ARLR

  

Comments
ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT TO AHTD GPS #150010A & THEN RAN DIGITAL LEVELS FROM AHTD GPS #150010A BY S5112 FOR JOB FSX005 IN OCT. 13. **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150010A	<b>Date Monumented</b> 10/14/2013	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 92	<b>Job Number:</b> BR2404
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	116,464.5011	0.0040	
<b>Easting (M)</b>	352,363.3199	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	382,100.6174		
<b>Easting (SFT)</b>	1,156,045.3254		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	18	18.3404706
<b>Scale Factor</b>	0.999942133		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	87	12.19	40.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT BY S5112 FOR JOB FSX005 IN OCT. 13. (i.e. no levels involved in establishing this elevation, strictly Static GPS derived). **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210.
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> ARLR	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35    22    55.1115444
<b>Longitude</b>	92    31    27.5100816
<b>Ellipsoid Height (M):</b>	140.672    0.0080
<b>Geoid Height (M):</b>	-28.041    0.0080

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 92, EAST OF CENTER RIDGE, GO EAST ON HIGHWAY 92 2.45 MILES TO THE MARK ON THE RIGHT, NORTH 15 FEET OF A FENCE, SOUTH 24.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 14 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 150010A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150011	<b>Date Monumented</b> 8/18/2014	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> 080494
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	99,174.3098	0.0020			
<b>Easting (M)</b>	336,938.6629	0.0020			
<b>Elevation (M)*</b>	101.008				
<b>Northing (SFT)</b>	325,374.3814				
<b>Easting (SFT)</b>	1,105,439.5965				
<b>Elevation (SFT)*</b>	331.390				

  

<b>Convergence Angle</b>	0	24	11.1658283
<b>Scale Factor</b>	0.999955445		
<b>Elevation Adjust. Factor</b>	0.9999841488		
<b>Combined Adjust. Factor</b>	0.9999395945		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF OVERCUP UNITE	240	74.80	245.4
MK # 2	COMBINATION W/GUY	52	19.40	63.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARLR	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12A

**Latitude** 35 13 30.9644760

**Longitude** 92 41 33.8443080

**Ellipsoid Height (M):** 72.505 0.0100

**Geoid Height (M):** -28.512

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 2.7 MILES TO THE MARK ON THE RIGHT, 36.5 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND WEST 2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150011 2014" ON TOP OF A 2.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150011A	<b>Date Monumented</b> 8/18/2014	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> 080494
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	99,454.9016	0.0020			
<b>Easting (M)</b>	337,564.5507	0.0020			
<b>Elevation (M)*</b>	103.165				
<b>Northing (SFT)</b>	326,294.9563				
<b>Easting (SFT)</b>	1,107,493.0301				
<b>Elevation (SFT)*</b>	338.466				

  

<b>Convergence Angle</b>	0	23	56.8083611
<b>Scale Factor</b>	0.999955167		
<b>Elevation Adjust. Factor</b>	0.9999838104		
<b>Combined Adjust. Factor</b>	0.9999389781		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/ TRANSFORMER	231	156.50	513.5
<b>MK # 2</b>	COMBINATION POLE W/ TRANSFORMER	97	67.40	221.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	<b>Comments</b> ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
---	--

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 2.3 MILES TO THE MARK ON THE LEFT, 29.6 FEET SOUTHWEST OF THE CENTERLINE OF A DRIVEWAY, AND 30.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150011A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>AZ Mark Station</b>	150011
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150012	<b>Date Monumented</b> 8/18/2014	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> 080494
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	102,836.1396	0.0020			
<b>Easting (M)</b>	338,486.9374	0.0020			
<b>Elevation (M)*</b>	138.168				
<b>Northing (SFT)</b>	337,388.2347				
<b>Easting (SFT)</b>	1,110,519.2271				
<b>Elevation (SFT)*</b>	453.306				

  

<b>Convergence Angle</b>	0	23	36.1166310
<b>Scale Factor</b>	0.999952014		
<b>Elevation Adjust. Factor</b>	0.9999783174		
<b>Combined Adjust. Factor</b>	0.9999303325		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ GUY	265	58.00	190.3
MK # 2	POWER POLE W/ LIGHT	16	96.00	315.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 0.05 MILES TO THE MARK ON THE RIGHT, 49.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150012 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	150012A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150012A	<b>Date Monumented</b> 8/18/2014	<b>Monumented By</b> AHTD	<b>County</b> CONWAY	<b>Route</b> 9	<b>Job Number:</b> 080494
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	102,274.0771	0.0020			
<b>Easting (M)</b>	338,466.1909	0.0020			
<b>Elevation (M)*</b>	133.556				
<b>Northing (SFT)</b>	335,544.2013				
<b>Easting (SFT)</b>	1,110,451.1613				
<b>Elevation (SFT)*</b>	438.176				

  

<b>Convergence Angle</b>	0	23	36.5053698
<b>Scale Factor</b>	0.999952518		
<b>Elevation Adjust. Factor</b>	0.9999790411		
<b>Combined Adjust. Factor</b>	0.9999315601		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE	151	90.30	296.3
MK # 2	TELEPHONE BOX	246	97.00	318.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR Ref Mon # 2    ARBT Ref Mon # 3    P777	<b>Comments</b>  ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
---	--

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150013	<b>Date Monumented</b> 10/21/2019	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> 247	<b>Job Number:</b> 080615
--------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	86,251.4387	0.0040			
<b>Easting (M)</b>	307,863.5778	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	282,976.5951				
<b>Easting (SFT)</b>	1,010,049.0882				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	17.1490102
<b>Scale Factor</b>	0.999970470		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	END OF FENCE	92	1.62	5.3
<b>MK # 2</b>	PLASTIC COROGATED PIPE	306	8.08	26.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARGS"/> <b>Ref Mon # 2</b> <input type="text" value="ARLR"/> <b>Ref Mon # 3</b> <input type="text" value="ARRV"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 6 23.4698364
<b>Longitude</b>	93 0 38.3436720
<b>Ellipsoid Height (M):</b>	79.789 0.0130
<b>Geoid Height (M):</b>	-28.936 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 154, IN PONTOON, GO SOUTH ON HIGHWAY 247 FOR 0.4 MILES TO THE MARK ON THE LEFT, EAST OF THE C/L OF THE HIGHWAY 45' AND SOUTH OF A GRAVEL DRIVEWAY 12'. THE MARK IS A STRANDARD 2 1/2" CAP STAMPED "2019 150013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150013A	<b>Date Monumented</b> 10/21/2019	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> 247	<b>Job Number:</b> 080615
---------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	86,715.6254	0.0040			
<b>Easting (M)</b>	307,849.1827	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	284,499.5143				
<b>Easting (SFT)</b>	1,010,001.8602				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	17.5892633
<b>Scale Factor</b>	0.999969869		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	263	3.35	11.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARGS	
Ref Mon # 2: ARLR	
Ref Mon # 3: ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 16	<b>Date Monumented</b> 1/22/2001	<b>Monumented By</b> OF BENTONV	<b>County</b> BENTON	<b>Route</b> CR 39	<b>Job Number:</b> 009969
----------------------	-------------------------------------	------------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	232,454.6626	
<b>Easting (M)</b>	197,187.0627	
<b>Elevation (M)*</b>	362.078	
<b>Northing (SFT)</b>	762,645.0055	
<b>Easting (SFT)</b>	646,937.8882	
<b>Elevation (SFT)*</b>	1,187.918	

  

<b>Convergence Angle</b>	-1	18	56.8175147
<b>Scale Factor</b>	1.000039083		
<b>Elevation Adjust. Factor</b>	0.9999431814		
<b>Combined Adjust. Factor</b>	0.9999822621		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.71 KM (3.55 MI) TO THE JUNCTION OF SHORT ROAD (OLD COUNTY ROAD 452) ON THE LEFT GO LEFT, EAST ON SHORT ROAD FOR 3.07 KM (1.91 MI) TO THE JUNCTION OF PUNKIN HOLLOW ROAD (OLD COUNTY ROAD 39) AND THE STATION ON THE LEFT. THE STATION IS 13.10 METERS NORTHEAST OF THE CENTER OF SHORT ROAD, 11.00 METERS SOUTHWEST OF THE CENTER OF PUNKIN HOLLOW ROAD 7.80 METER NORTHWEST OF THE CENTER OF A CROSSOVER ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A CITY OF BENTONVILLE SURVEY CONTROL POINT 90mm CAP STAMPED "16" SET IN A ROUND 0.54 METER DIAMETER CONCRETE MONUMENT.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.85	15.9
MK # 2	SOUTHWEST END CMP	108	12.45	40.8
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="V 26"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="CASSPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="FLINT"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160001	<b>Date Monumented</b> 5/1/1990	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> R00094
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 170,729.6679		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 524,557.9030		<b>Latitude</b> 35 51 51.7389300
<b>Elevation (M)*</b> 		<b>Longitude</b> 90 37 14.7949140
<b>Northing (SFT)</b> 560,135.5854		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,720,987.0534		<b>Geoid Height (M):</b> -28.693
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 48 9.2485101	<b>Location Description</b>  THE STATION IS 5.5 FEET EAST OF A FENCE CORNER, 58 FEET NORTH OF THE CENTERLINE OF HWY. 49, 126 FEET EAST OF THE EDGE OF A FIELD ROAD, 190 FEET WEST OF A PAVED STREET ACROSS HWY. 49 FROM MAX'S AIRCRAFT SERVICE AND 3.61 FEET SOUTH OF A WITNESS POST.
<b>Scale Factor</b> 0.999947850	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>				
<b>Horizontal Datum</b> 		<b>Latitude</b> 		
<b>Longitude</b> 				
<b>Ellipsoid Height:</b> 				
<b>Grid Northing (Meters)</b> 				
<b>Grid Easting (Meters)</b> 				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TOP OF FENCE BRACE POST	325	3.73	12.2
<b>MK # 2</b>	NBC IN TOP OF FENCE CORNER POST	285	2.43	8.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> FIRST	Old point number 90160001
<b>Ref Mon # 2</b> BOWMAN	
<b>Ref Mon # 3</b> NETTLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160002	<b>Date Monumented</b> 5/1/1990	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> R00094
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	170,703.9459	
<b>Easting (M)</b>	525,189.3270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	560,051.1958	
<b>Easting (SFT)</b>	1,723,058.6503	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	23.8847079
<b>Scale Factor</b>	0.999947824		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS 39 FEET WEST AND 39 FEET SOUTH OF A DOUBLE RC BOX ACROSS CO.RD., 2.5 FEET EAST OF A CONCRETE SLAB WITH TELEPHONE JCT. BOX ANCHORED TO IT, 100 FEET SOUTH OF THE CENTERLINE OF HWY. 49 AND 35 FEET SOUTHEAST OF T14N R4E SECTION 1 AND 12 NW OF NE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	90	24.24	79.5
<b>MK # 2</b>	PUNCH POINT IN TOP OF FIRE HYDRANT	100	3.58	11.7
<b>MK # 3</b>	NBC IN POWER POLE	150	13.47	44.2

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FIRST</p> <p><b>Ref Mon # 2</b>    BOWMAN</p> <p><b>Ref Mon # 3</b>    NETTLE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Old point number 90160002</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160004A	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> NA	<b>Job Number:</b> 00412,RX0017,001784,10088
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,304.4940	
<b>Easting (M)</b>	488,648.1610	
<b>Elevation (M)*</b>	77.115	
<b>Northing (SFT)</b>	535,774.8274	
<b>Easting (SFT)</b>	1,603,173.1749	
<b>Elevation (SFT)*</b>	253.002	

  

<b>Convergence Angle</b>	0	34	14.6358711
<b>Scale Factor</b>	0.999943089		
<b>Elevation Adjust. Factor</b>	0.9999878982		
<b>Combined Adjust. Factor</b>	0.9999309879		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	48	4.8043404
<b>Longitude</b>	91	1	9.0871104
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	163,304.8173		
<b>Grid Easting (Meters)</b>	488,648.1259		

  

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.60 KM (4.72 MILES) TO CO. RD. NO. 197 ON THE RIGHT LEADING NORTH, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 0.578 KM (0.36 MILES) TO THE STATION ON THE RIGHT ON A SMALL KNOLL BY AN OLD HOUSE PLACE. THE STATION IS 5.234 METERS EAST OF THE CENTER OF CO. RD. NO. 197 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16004A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE		29.31	96.2		160030
MK # 2						159 40 39
MK # 3						159 06 25

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160005	<b>Date Monumented</b> 1/4/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> NA	<b>Job Number:</b> 100412,RX0017,001784
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,576.4040	
<b>Easting (M)</b>	490,388.3690	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	549,790.2521	
<b>Easting (SFT)</b>	1,608,882.5073	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	55.9727380
<b>Scale Factor</b>	0.999945841		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	50	22.8403104
<b>Longitude</b>	90	59	58.0484292
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	167,576.7154		
<b>Grid Easting (Meters)</b>	490,388.3546		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	85	13.10	43.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	160005A
<b>Geodetic Azimuth</b>	270 12 04
<b>Grid Azimuth</b>	269 37 08

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ARPG
Ref Mon # 2	Newspost
Ref Mon # 3	K 183, 160010

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160005A	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> NA	<b>Job Number:</b> 100412,RX0017,001784
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,572.9300	
<b>Easting (M)</b>	489,866.1000	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	549,778.8545	
<b>Easting (SFT)</b>	1,607,169.0298	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	43.8621049
<b>Scale Factor</b>	0.999945842		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	50	22.8991812
<b>Longitude</b>	91	0	18.8608608
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	167,573.2379		
<b>Grid Easting (Meters)</b>	489,866.0813		

  

Location Description			
<p>FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO WEST ON HWY. 226 FOR 4.72 MILES TO CO. RD. NO. 197 ON THE RIGHT, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 1.0 MILE TO CO. RD. NO. 189 ON THE RIGHT, GO RIGHT (EAST) ON CO. RD. NO. 189 FOR 0.50 MILES TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.50 MILES TO A CURVE RIGHT, GO RIGHT (EAST) FOR 0.50 MILES TO THE JCT. WITH CO. RD. NO. 187, GO LEFT ON CO. RD. NO. 187 FOR 1.50 MILES TO A CURVE RIGHT AND A FIELD ROAD ON THE LEFT, GO LEFT (EAST) ON THE FIELD ROAD FOR 0.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.81 METERS SOUTH OF THE CENTER OF THE FIELD ROAD AT THE BASE OF A LEVEE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPG</p> <p>Ref Mon # 2    Newport</p> <p>Ref Mon # 3    K 183, 160010</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160006	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> N/A	<b>Job Number:</b> RX0017,001784
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	172,518.7299	
<b>Easting (M)</b>	490,295.4090	
<b>Elevation (M)*</b>	76.838	
<b>Northing (SFT)</b>	566,005.1997	
<b>Easting (SFT)</b>	1,608,577.5210	
<b>Elevation (SFT)*</b>	252.093	

  

<b>Convergence Angle</b>	0	34	54.9812580
<b>Scale Factor</b>	0.999949600		
<b>Elevation Adjust. Factor</b>	0.9999879418		
<b>Combined Adjust. Factor</b>	0.9999375424		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-1-E IN THE NE 1/4 OF THE NE 1/4 OF SECTION 5. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILE) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND CO. RD. NO. 194 ON THE LEFT, TURN LEFT (WEST) ON CO. RD. NO. 194 AND GO 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191 AND A FIELD ROAD STRAIGHT AHEAD, GO STRAIGHT (WEST) ON THE FIELD ROAD FOR 0.16 KM (0.10 MILES) TO THE STATION IN THE CENTER OF THE FIELD ROAD. THE STATION IS 3.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160006" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="SEDGWICK"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="NEWSPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="WALDENBURG"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160006A	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> N/A	<b>Job Number:</b> RX0017,001784
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	172,530.1179	
<b>Easting (M)</b>	489,789.2310	
<b>Elevation (M)*</b>	76.741	
<b>Northing (SFT)</b>	566,042.5618	
<b>Easting (SFT)</b>	1,606,916.8354	
<b>Elevation (SFT)*</b>	251.774	

  

<b>Convergence Angle</b>	0	34	43.2406820
<b>Scale Factor</b>	0.999949613		
<b>Elevation Adjust. Factor</b>	0.9999879570		
<b>Combined Adjust. Factor</b>	0.9999375706		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE NE 1/4 OF SECTION 5. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD &amp; LAWRENCE COUNTY LINE AND CO. RD. NO. 194 ON THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191 TO THE LEFT AND RIGHT AND A FIELD ROAD STRAIGHT AHEAD, CONTINUE STRAIGHT AHEAD ON THE FIELD ROAD FOR 0.67 KM (0.41 MILES) TO THE STATION IN THE CENTER OF THE FIELD ROAD. THE STATION IS 3.00 METERS SOUTH OF A WITNESS POST AND IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16006A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					160006
MK # 2	NONE					91 52 02.89273
MK # 3	NONE					91 17 19.69493

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160008	<b>Date Monumented</b> 11/8/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 100412,RX0017
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,583.3689	
<b>Easting (M)</b>	500,040.3050	
<b>Elevation (M)*</b>	75.175	
<b>Northing (SFT)</b>	533,408.9361	
<b>Easting (SFT)</b>	1,640,548.9007	
<b>Elevation (SFT)*</b>	246.637	

  

<b>Convergence Angle</b>	0	38	38.4675690
<b>Scale Factor</b>	0.999942598		
<b>Elevation Adjust. Factor</b>	0.9999882027		
<b>Combined Adjust. Factor</b>	0.9999308014		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	37.4892900
<b>Longitude</b>	90	53	35.6895708
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	162,583.7129		
<b>Grid Easting (Meters)</b>	500,040.2664		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	165	21.55	70.7
MK # 2	NBC IN POWER POLE	19	51.56	169.1
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARP <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	3-Wire Levels were ran by S5110 in job 100412 August 2006 from NGS BM M-246 and K-183

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    35    47    37.4781156

**Longitude**    90    53    35.6881884

**Ellipsoid Height (M):**    47.485   

**Geoid Height (M):**    -27.651

  

**Location Description**

THE STATION IS LOCATED IN T-14-N R-2-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 3.96 KM (2.47 MILES) TO CO. RD. NO. 161 AND THE STATION ON THE LEFT. THE STATION IS 12.290 METERS NORTH OF THE CENTERLINE OF HWY. 226, 10.980 METERS WEST OF THE CENTER OF CO. RD. NO. 161 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160008" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160008A	<b>Date Monumented</b> 11/8/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 100412,RX0017
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,557.1690	
<b>Easting (M)</b>	500,576.8520	
<b>Elevation (M)*</b>	75.459	
<b>Northing (SFT)</b>	533,322.9786	
<b>Easting (SFT)</b>	1,642,309.2219	
<b>Elevation (SFT)*</b>	247.568	

  

<b>Convergence Angle</b>	0	38	50.8943089
<b>Scale Factor</b>	0.999942579		
<b>Elevation Adjust. Factor</b>	0.9999881582		
<b>Combined Adjust. Factor</b>	0.9999307378		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	36.4423596
<b>Longitude</b>	90	53	14.3347092
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	162,557.4926		
<b>Grid Easting (Meters)</b>	500,576.7979		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	252	31.93	104.8
<b>MK # 2</b>	NBC IN POWER POLE	266	29.90	98.1
<b>MK # 3</b>	NBC IN POWER POLE	90	35.80	117.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARP	3-Wire Levels were ran by s1110 in job 100412 in August 2006 from NGS BM M-246 and K-183
<b>Ref Mon # 2</b> Newport	
<b>Ref Mon # 3</b> K 183, 160010	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 47 36.4318404
<b>Longitude</b>	90 53 14.3327004
<b>Ellipsoid Height (M):</b>	47.779
<b>Geoid Height (M):</b>	-27.650

Location Description
<p>THE STATION IS LOCATED IN T-13-N R-2-E IN THE NE 1/4 OF THE NW 1/4 OF SECTION 4. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 4.57 KM (2.84 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.255 METERS WEST OF A FIELD ENTRANCE, 10.385 METERS SOUTH OF THE CENTERLINE OF HWY. 226, 43.423 METERS EAST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16008A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>

<b>AZ Mark Station</b>	160008
<b>Geodetic Azimuth</b>	273 26 35
<b>Grid Azimuth</b>	272 47 44

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160009	<b>Date Monumented</b> 11/8/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 100412,RX0017
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	162,584.6269		
<b>Easting (M)</b>	503,691.4340		
<b>Elevation (M)*</b>	76.823		
<b>Northing (SFT)</b>	533,413.0634		
<b>Easting (SFT)</b>	1,652,527.6464		
<b>Elevation (SFT)*</b>	252.043		

  

<b>Convergence Angle</b>	0	40	3.0765236
<b>Scale Factor</b>	0.999942574		
<b>Elevation Adjust. Factor</b>	0.9999879441		
<b>Combined Adjust. Factor</b>	0.9999305188		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	36.1734288
<b>Longitude</b>	90	51	10.2885192
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	162,584.9467		
<b>Grid Easting (Meters)</b>	503,691.3865		

  

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-2-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 35. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.644 KM (4.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS NORTH OF THE CENTERLINE OF HWY. 226, 30 50 METERS EAST OF A FIELD ENTRANCE, 6.0 METERS FROM THE CENTER OF A FIELD ROAD, 6.00 METERS WEST OF A DRAINAGE DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		156		
MK # 2	NBC IN POWER POLE		0		
MK # 3	CENTER OF TELEPHONE BOX		227		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARPG</p> <p><b>Ref Mon # 2</b>    Newport</p> <p><b>Ref Mon # 3</b>    K 183, 160010</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev. was found to be 252.1248. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160009A	<b>Date Monumented</b> 11/8/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 100412,RX0017
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	162,586.9700		
<b>Easting (M)</b>	503,275.0610		
<b>Elevation (M)*</b>	76.987		
<b>Northing (SFT)</b>	533,420.7507		
<b>Easting (SFT)</b>	1,651,161.5960		
<b>Elevation (SFT)*</b>	252.583		

  

<b>Convergence Angle</b>	0	39	53.4284676
<b>Scale Factor</b>	0.999942579		
<b>Elevation Adjust. Factor</b>	0.9999879183		
<b>Combined Adjust. Factor</b>	0.9999304980		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	36.4071912
<b>Longitude</b>	90	51	26.8682508
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	162,587.3103		
<b>Grid Easting (Meters)</b>	503,275.0273		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	127			44.04	144.5
MK # 2	NBC IN POWER POLE	223			37.20	122.0
MK # 3	NBC IN POWER POLE	355			73.25	240.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev was found to be 252.6688. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160010	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 00556,RX0017,100412,br161
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	162,637.4830
<b>Easting (M)</b>	509,781.6680
<b>Elevation (M)*</b>	85.596
<b>Northing (SFT)</b>	533,586.4755
<b>Easting (SFT)</b>	1,672,508.6891
<b>Elevation (SFT)*</b>	280.827

  

<b>Convergence Angle</b>	0 42 24.2205060
<b>Scale Factor</b>	0.999942563
<b>Elevation Adjust. Factor</b>	0.9999865674
<b>Combined Adjust. Factor</b>	0.9999291311

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35 47 35.5181316		
<b>Longitude</b>	90 47 7.7307396		
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	162,637.7908		
<b>Grid Easting (Meters)</b>	509,781.6282		

  

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-3-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 63 IN WEST JONESBORO, GO WEST ON HWY. 226 FOR 7.11 KM (4.42 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.315 METERS WEST OF THE CENTERLINE OF HWY. 226, 7.333 METERS NORTH OF A PAVED FIELD ENTRANCE, 130.356 METERS NORTH OF THE JCT. OF HWY. 226 AND HWY. 226 SPUR AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160010" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PAR1</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	MEM2	Ref Mon # 3	PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3wire levels ran by S5111 from NGS K183 under Job # 100611</td> </tr> </table>	Comments	3wire levels ran by S5111 from NGS K183 under Job # 100611
Ref Mon # 1	BUTLER								
Ref Mon # 2	MEM2								
Ref Mon # 3	PAR1								
Comments									
3wire levels ran by S5111 from NGS K183 under Job # 100611									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160010A	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 226	<b>Job Number:</b> 100556,RX0017,100412
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,209.3699	
<b>Easting (M)</b>	509,810.2220	
<b>Elevation (M)*</b>	91.425	
<b>Northing (SFT)</b>	535,462.7411	
<b>Easting (SFT)</b>	1,672,602.3700	
<b>Elevation (SFT)*</b>	299.950	

  

<b>Convergence Angle</b>	0	42	25.0457104
<b>Scale Factor</b>	0.999942894		
<b>Elevation Adjust. Factor</b>	0.9999856526		
<b>Combined Adjust. Factor</b>	0.9999285475		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	54.0612816
<b>Longitude</b>	90	47	6.3128292
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	163,209.6703		
<b>Grid Easting (Meters)</b>	509,810.1769		

  

Location Description			
THE STATION IS LOCATED IN T-14-N R-3-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 33. FROM THE JCT. OF HWY. 226 AND HWY. 63 IN WEST JONESBORO, GO WEST ON HWY. 226 FOR 6.55 KM (4.07 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 226, 41.50 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PAR1</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	MEM2	Ref Mon # 3	PAR1	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     3wire levels ran by S5111 from NGS K183 under Job # 100611                 </td> </tr> </table>	Comments	3wire levels ran by S5111 from NGS K183 under Job # 100611
Ref Mon # 1	BUTLER								
Ref Mon # 2	MEM2								
Ref Mon # 3	PAR1								
Comments									
3wire levels ran by S5111 from NGS K183 under Job # 100611									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160011	<b>Date Monumented</b> 11/8/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100556,RX0017
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	160,992.1609	
<b>Easting (M)</b>	512,617.6410	
<b>Elevation (M)*</b>	81.830	
<b>Northing (SFT)</b>	528,188.4479	
<b>Easting (SFT)</b>	1,681,813.0438	
<b>Elevation (SFT)*</b>	268.471	

  

<b>Convergence Angle</b>	0	43	29.4556720
<b>Scale Factor</b>	0.999941636		
<b>Elevation Adjust. Factor</b>	0.9999871584		
<b>Combined Adjust. Factor</b>	0.9999287951		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-13-N R-3-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 3. FROM THE JCT. OF HWY. 63 AND HWY. 49B, GO SOUTH ON HWY. 49B FOR 4.98 KM (3.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS ON A CLEAR LOT 65.814 METERS SOUTHWEST OF THE "VALLEY VIEW FIRE STATION", 15.20 METERS NORTH OF THE CENTERLINE OF HWY. 49, 28.584 METERS EAST OF THE CENTER OF "MAPLE VALLEY DRIVE", 15.341 METERS NORTHEAST OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160011" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN POWER POLE	223	45.41	149.0		
MK # 2	NBC IN POWER POLE	290	34.77	114.1		
MK # 3	PUNCH POINT IN TOP OF FIRE HYDRANT	328	36.02	118.2		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEDGWICK</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    WALDENBURG</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160011A	<b>Date Monumented</b> 10/19/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100611,100556,RX0017
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	160,962.4470
<b>Easting (M)</b>	512,060.7330
<b>Elevation (M)*</b>	82.202
<b>Northing (SFT)</b>	528,090.9615
<b>Easting (SFT)</b>	1,679,985.9215
<b>Elevation (SFT)*</b>	269.692

  

<b>Convergence Angle</b>	0 43 16.5442937
<b>Scale Factor</b>	0.999941624
<b>Elevation Adjust. Factor</b>	0.9999870999
<b>Combined Adjust. Factor</b>	0.9999287247

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	46	40.2491208
<b>Longitude</b>	90	45	37.8122292
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	160,962.7218		
<b>Grid Easting (Meters)</b>	512,060.6812		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC POWER POLE	270	18.79	61.7
<b>MK # 2</b>	NBC POWER POLE	90	29.27	96.0
<b>MK # 3</b>	NBC POWER POLE	105	29.75	97.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 <b>Ref Mon # 3</b> BLMM	3wire levels ran by S5111 from NGS K183 under Job # 100611

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality <b>Elevation Datum:</b> NAVD 88 <b>Geoid Datum:</b> <b>Latitude</b> 35 46 40.2401820 <b>Longitude</b> 90 45 37.8103032 <b>Ellipsoid Height (M):</b> 54.576 <b>Geoid Height (M):</b> -27.633	
---	--

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49B OVERPASS ON HIGHWAY 63, WEST OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 3.44 MILES TO THE STATION ON THE LEFT, NORTHWEST OF THE VALLEYVIEW CHURCH, 13.29 METERS OF THE CENTERLINE OF THE HIGHWAY AND 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "16011A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160012	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100959
--------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	164,353.1798	0.0013			
<b>Easting (M)</b>	515,525.7930	0.0015			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	539,215.3907				
<b>Easting (SFT)</b>	1,691,354.2059				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	44	37.8437874
<b>Scale Factor</b>	0.999943536		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS NEAR THE JCT. OF HWY. 63 AND THE HWY. 49 OVERPASS IN WEST JONESBORO. THE STATION IS 131.240 METERS SOUTH OF BRIDGE NO. 4860 OVER HWY. 63 ON AN ELEVATED MEDIAN, 32.915 METERS WEST OF THE CENTERLINE OF HWY. 49, 20.286 METERS SOUTH OF THE HWY. 63 EAST EXIT RAMP ON HWY. 49, 78.10 METERS NORTH OF THE SERVICE ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	160012A RESET
<b>Geodetic Azimuth</b>	324 08 12
<b>Grid Azimuth</b>	323 23 35

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEVATION (387.7551 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
50012(OLD DATA)	9/9/2003	AHTD	CRAIGHEAD	49	56,RX0017,100417,100727,10

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,353.1809	
<b>Easting (M)</b>	515,525.7630	
<b>Elevation (M)*</b>	118.172	
<b>Northing (SFT)</b>	539,215.3943	
<b>Easting (SFT)</b>	1,691,354.1074	
<b>Elevation (SFT)*</b>	387.703	

  

<b>Convergence Angle</b>	0	44	37.8430919
<b>Scale Factor</b>	0.999943536		
<b>Elevation Adjust. Factor</b>	0.9999814553		
<b>Combined Adjust. Factor</b>	0.9999249924		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	48	28.8233784
<b>Longitude</b>	90	43	18.0990192
<b>Ellipsoid Height:</b>	89.557		
<b>Grid Northing (Meters)</b>	164,353.4617		
<b>Grid Easting (Meters)</b>	515,525.7195		

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PAR1</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	MEM2	Ref Mon # 3	PAR1	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242
Ref Mon # 1	BUTLER								
Ref Mon # 2	MEM2								
Ref Mon # 3	PAR1								
Comments									
ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242									

  

Location Description	
THE STATION IS NEAR THE JCT. OF HWY. 63 AND THE HWY. 49 OVERPASS IN WEST JONESBORO. THE STATION IS 131.240 METERS SOUTH OF BRIDGE NO. 4860 OVER HWY. 63 ON AN ELEVATED MEDIAN, 32.915 METERS WEST OF THE CENTERLINE OF HWY. 49, 20.286 METERS SOUTH OF THE HWY. 63 EAST EXIT RAMP ON HWY. 49, 78.10 METERS NORTH OF THE SERVICE ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.	

  

<b>AZ Mark Station</b>	160012A RESET
<b>Geodetic Azimuth</b>	324 08 12
<b>Grid Azimuth</b>	323 23 35

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
160012A RESET	9/9/2003	ARDOT	CRAIGHEAD	63	100959

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	164,752.9422	0.0013			
<b>Easting (M)</b>	515,228.8281	0.0016			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	540,526.9445				
<b>Easting (SFT)</b>	1,690,379.9135				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	44	31.0810150
<b>Scale Factor</b>	0.999943785		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	127	13.60	44.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> AROC	ELEVATION (389.2151 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

  

Location Description	
FROM THE JUNCTION OF STATE HIGHWAY 63 AND THE OVERPASS FOR STATE HIGHWAY 49, IN JONESBORO, GO NORTH ON HIGHWAY 63 0.30 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHWEST 9.10 METERS FROM THE CENTERLINE OF OF THE SOUTH BOUND LANE, NORTHEAST 10.20 METERS OF THE NORTH BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160012A RESET 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ESET RESET (OI	9/9/2003	AHTD	CRAIGHEAD	63	100589,100556

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,752.9429	
<b>Easting (M)</b>	515,228.7970	
<b>Elevation (M)*</b>	118.614	
<b>Northing (SFT)</b>	540,526.9468	
<b>Easting (SFT)</b>	1,690,379.8115	
<b>Elevation (SFT)*</b>	389.154	

  

<b>Convergence Angle</b>	0	44	31.0802944
<b>Scale Factor</b>	0.999943785		
<b>Elevation Adjust. Factor</b>	0.9999813859		
<b>Combined Adjust. Factor</b>	0.9999251719		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	127	13.60	44.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 <b>Ref Mon # 3</b> PAR1	ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160013	<b>Date Monumented</b> 6/26/1995	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> N\A	<b>Job Number:</b> 100959
--------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	163,690.2766	0.0013
<b>Easting (M)</b>	524,592.2307	0.0016
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	537,040.5158	
<b>Easting (SFT)</b>	1,721,099.6769	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	7.7587773
<b>Scale Factor</b>	0.999943063		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEATHER STATION TOWER	133	9.90	32.5
<b>MK # 2</b>	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
<b>MK # 3</b>	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> AROC	ELEVATION (236.3414 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

  

**Location Description**

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DISTRICT TEN RESIDENT ENGINEER OFFICE IN JONESBORO. THE STATION IS 31.0 METERS EAST OF THE MAIN ENTRANCE GATE IN THE REAR OF THE PARKING AREA CLOSE TO A WEATHER STATION AND 9.30 METERS WEST OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS ABOUT 0.10 METERS BELOW THE GRAVEL SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
60013(OLD DATA)	6/26/1995	AHTD	CRAIGHEAD	N\A	DIST10,100664,100657

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	3rd Order - Digital Levels
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	163,690.2757	0.0020
<b>Easting (M)</b>	524,592.2275	0.0020
<b>Elevation (M)*</b>	72.019	

  

<b>Northing (SFT)</b>	537,040.5129	
<b>Easting (SFT)</b>	1,721,099.6664	
<b>Elevation (SFT)*</b>	236.282	

  

<b>Convergence Angle</b>	0	48	7.7587019
<b>Scale Factor</b>	0.999943063		
<b>Elevation Adjust. Factor</b>	0.9999886980		
<b>Combined Adjust. Factor</b>	0.9999317617		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	48	3.3475536
<b>Longitude</b>	90	37	17.3590428
<b>Ellipsoid Height:</b>	43.305		
<b>Grid Northing (Meters)</b>	163,690.5719		
<b>Grid Easting (Meters)</b>	524,592.1260		

  

**Location Description**

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DISTRICT TEN RESIDENT ENGINEER OFFICE IN JONESBORO. THE STATION IS 31.0 METERS EAST OF THE MAIN ENTRANCE GATE IN THE REAR OF THE PARKING AREA CLOSE TO A WEATHER STATION AND 9.30 METERS WEST OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS ABOUT 0.10 METERS BELOW THE GRAVEL SURFACE.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEATHER STATION TOWER	133	9.90	32.5
<b>MK # 2</b>	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
<b>MK # 3</b>	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT (160012 AHTD GPS)	PREVIOUS ELEV. 71.937m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.) *****NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARPG (WALDENBURG 1954)	
<b>Ref Mon # 3</b> ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160013A	<b>Date Monumented</b> 6/26/1995	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> 18S	<b>Job Number:</b> 100959
---------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	163,705.8213	0.0013			
<b>Easting (M)</b>	524,308.8084	0.0015			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	537,091.5154				
<b>Easting (SFT)</b>	1,720,169.8156				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	48	1.1955927
<b>Scale Factor</b>	0.999943074		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5
<b>MK # 2</b>	FIFTH GUARDRAIL POST FROM THE END OF BRIDGE	200	1.90	6.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	ELEVATION (259.7403 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> AROC	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    48    3.9708612
<b>Longitude</b>	90    37    28.6339404
<b>Ellipsoid Height (M):</b>	51.310    0.0068
<b>Geoid Height (M):</b>	-27.859    0.0068

  

Location Description
<p>THE STATION IS LOCATED ON THE SOUTHEAST CORNER OF THE HWY. 18 SPUR BRIDGE (BRIDGE NO. 6173) OVER HWY. 63 BYPASS ON THE SOUTH SIDE OF JONESBORO JUST ACROSS HWY. 63 FROM THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT RESIDENT ENGINEER OFFICE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
0013A(OLD DAT	6/26/1995	AHTD	CRAIGHEAD	18S	DIST10,100664,100657

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	163,705.8230	0.0020			
<b>Easting (M)</b>	524,308.8094	0.0020			
<b>Elevation (M)*</b>	79.160				
<b>Northing (SFT)</b>	537,091.5210				
<b>Easting (SFT)</b>	1,720,169.8188				
<b>Elevation (SFT)*</b>	259.710				

  

<b>Convergence Angle</b>	0	48	1.1956178
<b>Scale Factor</b>	0.999943074		
<b>Elevation Adjust. Factor</b>	0.9999875774		
<b>Combined Adjust. Factor</b>	0.9999306521		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	48	3.9807000
<b>Longitude</b>	90	37	28.6383684
<b>Ellipsoid Height:</b>	50.463		
<b>Grid Northing (Meters)</b>	163,706.1230		
<b>Grid Easting (Meters)</b>	524,308.6930		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5
MK # 2	FIFTH GUARDRAIL POST FROM THE END OF BRIDGE	200	1.90	6.2
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARBT (160012 AHTD GPS)	PREVIOUS ELEV. 79.094m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.) *****NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARPG (WALDENBURG 1954)	
Ref Mon # 3 ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160014	<b>Date Monumented</b> 6/6/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 63	<b>Job Number:</b> 100293, 100869
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	180,579.4916	0.0020
<b>Easting (M)</b>	505,637.2866	0.0020
<b>Elevation (M)*</b>	77.255	

  

<b>Northing (SFT)</b>	592,451.2154	
<b>Easting (SFT)</b>	1,658,911.6645	
<b>Elevation (SFT)*</b>	253.461	

  

<b>Convergence Angle</b>	0	40	53.1275851
<b>Scale Factor</b>	0.999956853		
<b>Elevation Adjust. Factor</b>	0.9999878763		
<b>Combined Adjust. Factor</b>	0.9999447298		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	57	19.2633876
<b>Longitude</b>	90	49	44.2749288
<b>Ellipsoid Height:</b>	48.542		
<b>Grid Northing (Meters)</b>	180,579.7729		
<b>Grid Easting (Meters)</b>	505,637.2470		

  

**Location Description**  
  
 TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 19.83 METERS NORTHEAST OF THE CENTER OF HWY-63, 12.72 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF A RAILROAD TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	349	34.77	114.1
<b>MK # 2</b>	POWER POLE	79	29.35	96.3
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	160014A
<b>Geodetic Azimuth</b>	310 25 02.8892
<b>Grid Azimuth</b>	309 44 09.7318

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160012	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160014A	<b>Date Monumented</b> 6/6/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 63	<b>Job Number:</b> 100293, 100869
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	180,824.5662    0.0020
<b>Easting (M)</b>	505,342.4723    0.0030
<b>Elevation (M)*</b>	77.243
<b>Northing (SFT)</b>	593,255.2643
<b>Easting (SFT)</b>	1,657,944.4279
<b>Elevation (SFT)*</b>	253.421

  

<b>Convergence Angle</b>	0    40    46.3494933
<b>Scale Factor</b>	0.999957107
<b>Elevation Adjust. Factor</b>	0.9999878782
<b>Combined Adjust. Factor</b>	0.9999449857

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35    57	27.3282156	
<b>Longitude</b>	90    49	55.9233804	
<b>Ellipsoid Height:</b>	48.529		
<b>Grid Northing (Meters)</b>	180,824.8500		
<b>Grid Easting (Meters)</b>	505,342.4270		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	2	29.21	95.8
MK # 2	0.60 METER OAK	28	30.21	99.1
MK # 3	NONE			

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160012	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING USC&amp;GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869
Comments			
ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 6.20 KM. (3.85 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 18.70 METERS NORTHEAST OF THE CENTER OF HWY-63, 13.79 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF THE TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35    57    27.3189924
<b>Longitude</b>	90    49    55.9217064
<b>Ellipsoid Height (M):</b>	49.347    0.0130
<b>Geoid Height (M):</b>	-27.908

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160015A	<b>Date Monumented</b> 1/27/1998	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 63B	<b>Job Number:</b> 100417, 100882
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	169,440.5983	0.0020	
<b>Easting (M)</b>	520,533.1077	0.0020	
<b>Elevation (M)*</b>	94.220	0.0008	
<b>Northing (SFT)</b>	555,906.3629		
<b>Easting (SFT)</b>	1,707,782.3708		
<b>Elevation (SFT)*</b>	309.119		

  

<b>Convergence Angle</b>	0	46	35.4956470
<b>Scale Factor</b>	0.999946923		
<b>Elevation Adjust. Factor</b>	0.9999852141		
<b>Combined Adjust. Factor</b>	0.9999321379		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	51	11.7159444
<b>Longitude</b>	90	39	55.9122156
<b>Ellipsoid Height:</b>	66.480		
<b>Grid Northing (Meters)</b>	169,440.5919		
<b>Grid Easting (Meters)</b>	520,533.0580		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W SIGN	329	1.37	4.5
MK # 2	LIGHT POLE	71	45.67	149.8
MK # 3	LIGHT POLE=TBM 23	222	27.55	90.4

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    NEWSPORT Ref Mon # 2    P 315 Ref Mon # 3    AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Three wire levels done by crew S5113 in July 2016 in job 10882.</td> </tr> </table>	Comments	Three wire levels done by crew S5113 in July 2016 in job 10882.
Comments			
Three wire levels done by crew S5113 in July 2016 in job 10882.			

  

Location Description
THE STATION IS LOCATED ON THE NORTHEAST SIDE OF JONESBORO AT THE JUNCTION OF U.S. HIGHWAY 63B (JOHNSON AVENUE), U.S. HIGHWAY 49 AND STATE HIGHWAY 1. THE STATION IS 19.362 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. 63B WEST BOUND LANE AND 1.250 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160015A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160017	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 1	<b>Job Number:</b> 01853,100208, 100950,10083
--------------------------	-------------------------------------	------------------------------	----------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 156,968.8899		<b>Latitude</b> 35 44 28.0911768
<b>Easting (M)</b> 518,206.0810		<b>Longitude</b> 90 41 35.2448304
<b>Elevation (M)*</b> 76.612 0.0023		<b>Ellipsoid Height (M):</b> 48.872
<b>Northing (SFT)</b> 514,988.7663		<b>Geoid Height (M):</b> -27.646
<b>Easting (SFT)</b> 1,700,147.7841		
<b>Elevation (SFT)*</b> 251.352		

  

<b>Convergence Angle</b> 0 45 37.6929308	<b>Location Description</b>
<b>Scale Factor</b> 0.999939671	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 7.64 KM (4.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.18 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL FEILD ENTRANCE AND 0.50 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999879772	
<b>Combined Adjust. Factor</b> 0.9999276489	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	15.15	49.7
MK # 2	SOUTH END OF A HEADWALL	30	23.51	77.1
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT	Elevation updated by crew S5101 in October 2016 during job 100950. Based on NGS monument C 76.
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160017A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 1	<b>Job Number:</b> 001853,100208
---------------------------	-------------------------------------	------------------------------	----------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	156,580.3290	
<b>Easting (M)</b>	518,208.0410	
<b>Elevation (M)*</b>	76.490	
<b>Northing (SFT)</b>	513,713.9627	
<b>Easting (SFT)</b>	1,700,154.2145	
<b>Elevation (SFT)*</b>	250.951	

  

<b>Convergence Angle</b>	0	45	37.6188846
<b>Scale Factor</b>	0.999939506		
<b>Elevation Adjust. Factor</b>	0.9999879964		
<b>Combined Adjust. Factor</b>	0.9999275031		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 10.40 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END HEADWALL	80	12.06	39.6
MK # 2	POWER POLE	12	8.47	27.8
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NEWSPORT	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160018	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 1	<b>Job Number:</b> 001853,100208,100979
--------------------------	-------------------------------------	------------------------------	----------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,512.6919	
<b>Easting (M)</b>	520,218.9120	
<b>Elevation (M)*</b>	77.941	
<b>Northing (SFT)</b>	533,177.0567	
<b>Easting (SFT)</b>	1,706,751.5471	
<b>Elevation (SFT)*</b>	255.713	

  

<b>Convergence Angle</b>	0	46	26.0393167
<b>Scale Factor</b>	0.999942415		
<b>Elevation Adjust. Factor</b>	0.9999877686		
<b>Combined Adjust. Factor</b>	0.9999301843		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	STEELPIPE END POST	222	2.60	8.5
<b>MK # 2</b>	STEELPIPE IN LINE POST	312	2.20	7.2
<b>MK # 3</b>	NORTH END OF CONCRETE HEADWAL	125	15.70	51.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT	Elevation updated July 2019 by rewS5101 during job 100979. Levels ran from bm K330.
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 47 27.0836232
<b>Longitude</b>	90 40 12.1610388
<b>Ellipsoid Height (M):</b>	50.257
<b>Geoid Height (M):</b>	-27.688

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 26.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1 AND 1.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	HC 65 + 19
<b>Geodetic Azimuth</b>	2 20 14.892117
<b>Grid Azimuth</b>	1 33 48.854359

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160019	<b>Date Monumented</b> 4/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 141	<b>Job Number:</b> 100126,100433
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	177,142.4596	
<b>Easting (M)</b>	516,464.9979	
<b>Elevation (M)*</b>	100.371	
<b>Northing (SFT)</b>	581,174.8862	
<b>Easting (SFT)</b>	1,694,435.5806	
<b>Elevation (SFT)*</b>	329.299	

  

<b>Convergence Angle</b>	0	45	3.4970527
<b>Scale Factor</b>	0.999953379		
<b>Elevation Adjust. Factor</b>	0.9999842488		
<b>Combined Adjust. Factor</b>	0.9999376286		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.00 KM (4.97 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.85 METERS NORTH OF THE CENTER OF COUNTY ROAD 324, 6.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 141 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR1</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    P 315</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3WIRE FROM 160019A</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160019A	<b>Date Monumented</b> 4/19/2000	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 141	<b>Job Number:</b> 100126,100433
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 177,126.3362		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 517,169.0072		<b>Latitude</b> 35 55 22.5295428
<b>Elevation (M)*</b> 98.062		<b>Longitude</b> 90 42 5.9384052
<b>Northing (SFT)</b> 581,121.9880		<b>Ellipsoid Height (M):</b> 70.401
<b>Easting (SFT)</b> 1,696,745.3178		<b>Geoid Height (M):</b> -27.786
<b>Elevation (SFT)*</b> 321.725		

  

<b>Convergence Angle</b> 0 45 19.8323664	<b>Scale Factor</b> 0.999953355	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999846111	<b>Combined Adjust. Factor</b> 0.9999379668	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.69 KM (5.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 141, 8.25 METERS SOUTH OF THE CENTER OF COUNTY ROAD 773 AND 5.08 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	5	17.80	58.4	160019
MK # 2	FIRE HYDRANT	45	27.00	88.6	272 04 03.01051
MK # 3	NONE				271 18 43.11079

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> ELEVATION BY CONSULTANT FOR CEL.
<b>Ref Mon # 1</b> AHTD PAR1	
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> P 315	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160020	<b>Date Monumented</b> 6/10/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 158	<b>Job Number:</b> 100306
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,171.8529	
<b>Easting (M)</b>	537,049.6930	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	545,182.1541	
<b>Easting (SFT)</b>	1,761,970.5345	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	52	57.3361920
<b>Scale Factor</b>	0.999944491		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED ABOUT 10 MILES EAST OF JONESBORO, GO SOUTH ON STATE HIGH 158 0.07 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 158, 4.20 METERS NORTH OF CENTER OF FIELD ENTRANCE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END REINFORCED CONCRETE PIPE	110	2.70	8.9
MK # 2	SOUTH END REINFORCED CONCRETE PIPE	159	7.45	24.4
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    VILLPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160021	<b>Date Monumented</b> 6/10/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100306
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,898.7619	
<b>Easting (M)</b>	543,372.1590	
<b>Elevation (M)*</b>	70.478	
<b>Northing (SFT)</b>	550,847.8547	
<b>Easting (SFT)</b>	1,782,713.4917	
<b>Elevation (SFT)*</b>	231.227	

  

<b>Convergence Angle</b>	0	55	24.5355643
<b>Scale Factor</b>	0.999945581		
<b>Elevation Adjust. Factor</b>	0.9999889398		
<b>Combined Adjust. Factor</b>	0.9999345214		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO WEST ON STATE HIGHWAY 18 7.22 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS NORTH OF THE CENTERLINE OF STATE HIGHWAY 18, 6.60 METERS EAST OF THE END OF THE BRIDGE, AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH MARK TOP OF METAL GUARDRAIL POST	214	3.79	12.4	
MK # 2	PUNCH MARK TOP OF METAL GUARDRAIL POST	180	1.30	4.3	
MK # 3	PUNCH MARK TOP OF METAL GUARDRAIL POST	63	3.03	9.9	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> MANIPORT <b>Ref Mon # 3</b> VILLPORT	Elevation based on levels by consultant for Job# 100567

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160021A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 18	<b>Job Number:</b> 100306
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,360.1569	
<b>Easting (M)</b>	543,978.7450	
<b>Elevation (M)*</b>	69.094	
<b>Northing (SFT)</b>	552,361.6148	
<b>Easting (SFT)</b>	1,784,703.5992	
<b>Elevation (SFT)*</b>	226.686	

  

<b>Convergence Angle</b>	0	55	38.7718871
<b>Scale Factor</b>	0.999945895		
<b>Elevation Adjust. Factor</b>	0.9999891570		
<b>Combined Adjust. Factor</b>	0.9999350526		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	61	4.65	15.3
MK # 2				
MK # 3				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>VILLPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MANIPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AHTD PAR 1	Ref Mon # 2	VILLPORT	Ref Mon # 3	MANIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on levels by consultant for Job# 100567</td> </tr> </table>	Comments	Elevation based on levels by consultant for Job# 100567
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AHTD PAR 1										
Ref Mon # 2	VILLPORT										
Ref Mon # 3	MANIPORT										
Comments											
Elevation based on levels by consultant for Job# 100567											

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE TOWN OF MONETTE, GO WEST ON STATE HIGHWAY 18 6.81 MILES TO THE STATION ON THE RIGHT. THE STATION IS 14.25 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 160021A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160028A	<b>Date Monumented</b> 5/30/2006	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> NA	<b>Job Number:</b> 100412
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,413.6979	
<b>Easting (M)</b>	493,884.8180	
<b>Elevation (M)*</b>	74.215	
<b>Northing (SFT)</b>	532,852.2739	
<b>Easting (SFT)</b>	1,620,353.7737	
<b>Elevation (SFT)*</b>	243.487	

  

<b>Convergence Angle</b>	0	36	15.7815479
<b>Scale Factor</b>	0.999942539		
<b>Elevation Adjust. Factor</b>	0.9999883534		
<b>Combined Adjust. Factor</b>	0.9999308931		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	343	2.90	9.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM K-183 and M-246

  

Location Description	
To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 0.95 miles to county road 264 on the left. Turn left on CR 264 and go 0.45 miles to the station on the left. 27 feet south of the center of CR264 and 11.7 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160029	<b>Date Monumented</b> 6/5/2006	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100412
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,009.1879	
<b>Easting (M)</b>	495,059.7660	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	528,244.3106	
<b>Easting (SFT)</b>	1,624,208.5823	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	36	42.6613444
<b>Scale Factor</b>	0.999941755		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						None
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160030	<b>Date Monumented</b> 6/8/2006	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 226	<b>Job Number:</b> 100412
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,741.3590	
<b>Easting (M)</b>	488,863.1250	
<b>Elevation (M)*</b>	74.750	
<b>Northing (SFT)</b>	533,927.2753	
<b>Easting (SFT)</b>	1,603,878.4359	
<b>Elevation (SFT)*</b>	245.244	

  

<b>Convergence Angle</b>	0	34	19.4875342
<b>Scale Factor</b>	0.999942757		
<b>Elevation Adjust. Factor</b>	0.9999882694		
<b>Combined Adjust. Factor</b>	0.9999310270		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 4.60 miles to the station on the right. 13.5 feet west of a field entrance, 61.3 feet north of the center of hwy-226 and 7.40 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160030 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Texas Eastern pipeline marker	266	9.57	31.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> Newport <b>Ref Mon # 3</b> K 183, 160010	<b>Comments</b>  3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160031	<b>Date Monumented</b> 12/5/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> NA	<b>Job Number:</b> 100639, 100950
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,309.8700	
<b>Easting (M)</b>	516,276.1080	
<b>Elevation (M)*</b>	112.289	
<b>Northing (SFT)</b>	525,949.9652	
<b>Easting (SFT)</b>	1,693,815.8643	
<b>Elevation (SFT)*</b>	368.402	

  

<b>Convergence Angle</b>	0	44	54.0097984
<b>Scale Factor</b>	0.999941256		
<b>Elevation Adjust. Factor</b>	0.9999823785		
<b>Combined Adjust. Factor</b>	0.9999236355		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49S BRIDGE OVER STATE HIGHWAY 63 BYPASS, ON THE SOUTHWEST SIDE OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 0.1 MILE TO PARKER ROAD AND TURN LEFT ON PARKER ROAD AND GO 0.40 MILES TO HIGHWAY 141 (CLUBERHOUSE RD.) AND TURN RIGHT ON HIGHWAY 141 AND GO 2.30 MILES TO THE STATION MARK ON THE LEFT, 29.4 FEET EAST OF THE CENTERLINE OF THE ROAD AND 1.50 FEET WEST OF A WITNESS POST ON TOP OF A HIGH DITCH BANK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160031 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN 1.0 FOOT BELOW GROUND LEVEL.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	295	26.97	88.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    K 183, 160027</p> <p><b>Ref Mon # 2</b>    ARBT, ARPG, MANIPORT</p> <p><b>Ref Mon # 3</b>    160011A, 160017, 160071A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160031A	<b>Date Monumented</b> 12/5/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> NA	<b>Job Number:</b> 100639
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,938.0860	
<b>Easting (M)</b>	516,784.7810	
<b>Elevation (M)*</b>	107.624	
<b>Northing (SFT)</b>	524,730.2038	
<b>Easting (SFT)</b>	1,695,484.7357	
<b>Elevation (SFT)*</b>	353.095	

  

<b>Convergence Angle</b>	0	45	5.6809453
<b>Scale Factor</b>	0.999941064		
<b>Elevation Adjust. Factor</b>	0.9999831106		
<b>Combined Adjust. Factor</b>	0.9999241756		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE LAMP POST	135	0.70	2.3
<b>MK # 2</b>	TELEPHONE PEDASTAL	133	3.66	12.0
<b>MK # 3</b>	TRANSFORMER	339	12.13	39.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> K 183, 160027 <b>Ref Mon # 2</b> ARBT, ARPG, MANIPORT <b>Ref Mon # 3</b> 160011A, 160017, 160071A	3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160032	<b>Date Monumented</b> 10/13/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 91	<b>Job Number:</b> 100727
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,667.2529	
<b>Easting (M)</b>	515,113.4900	
<b>Elevation (M)*</b>	88.249	
<b>Northing (SFT)</b>	553,369.1456	
<b>Easting (SFT)</b>	1,690,001.5084	
<b>Elevation (SFT)*</b>	289.531	

  

<b>Convergence Angle</b>	0	44	29.5819875
<b>Scale Factor</b>	0.999946412		
<b>Elevation Adjust. Factor</b>	0.9999861510		
<b>Combined Adjust. Factor</b>	0.9999325638		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Comination pole	283	17.68	58.0
<b>MK # 2</b>	center of a manhole lid	104	20.73	68.0
<b>MK # 3</b>	Center of a manhole lid	245	5.33	17.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG	Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> Maniport, H315	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160032A	<b>Date Monumented</b> 10/13/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> NA	<b>Job Number:</b> 100727
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,116.5349	
<b>Easting (M)</b>	515,135.5980	
<b>Elevation (M)*</b>	90.423	
<b>Northing (SFT)</b>	551,562.3316	
<b>Easting (SFT)</b>	1,690,074.0411	
<b>Elevation (SFT)*</b>	296.661	

  

<b>Convergence Angle</b>	0	44	29.9293261
<b>Scale Factor</b>	0.999946019		
<b>Elevation Adjust. Factor</b>	0.9999858100		
<b>Combined Adjust. Factor</b>	0.9999318297		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Sign post	12	10.70	35.1
<b>MK # 2</b>	Combination pole	183	14.33	47.0
<b>MK # 3</b>	Southwest corner of a building	100	28.04	92.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> Maniport, H 315	Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    50    31.0782336
<b>Longitude</b>	90    43    31.6973244
<b>Ellipsoid Height (M):</b>	62.722
<b>Geoid Height (M):</b>	-27.693

  

Location Description
To reach the station from the junction of highways 91 (Johnson St.) and 141 (Main St.) on the north side of Jonesboro go west on hwy-91 for 1.20 miles to Gee street on the left. Turn left (south) on Gee street and go 0.30 miles to the station on the left in the "Family Dollar" parking lot. 41.0 feet east of the center of Gee st., 86.0 feet south of the north driveway, 26.0 feet north of the south driveway and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "180017A 2010" set on top of a 5/8 inch by 1.50 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160033	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	163,927.2549		
<b>Easting (M)</b>	496,772.6990		
<b>Elevation (M)*</b>	76.405		
<b>Northing (SFT)</b>	537,818.0021		
<b>Easting (SFT)</b>	1,629,828.4300		
<b>Elevation (SFT)*</b>	250.673		

  

<b>Convergence Angle</b>	0	37	23.0844582
<b>Scale Factor</b>	0.999943412		
<b>Elevation Adjust. Factor</b>	0.9999880097		
<b>Combined Adjust. Factor</b>	0.9999314224		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	light pole	130	19.81	65.0
<b>MK # 2</b>	west end of 24" CMP	73	18.29	60.0
<b>MK # 3</b>	60" red oak	26	27.74	91.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan &amp; H 315 during the Hydraulic Study for job 100412.</td> </tr> </table>	Comments	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.
Comments			
Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.			

  

Location Description	
To reach the station from the intersection of highway 226 and highway 18 in Cash, go north on highway 18 for 0.9 miles to the station on the left, in the northwest quadrant of the intersection of highway 18 and CR157, 38 feet north of the centerline of highway 18, 81 feet west of the centerline of CR157, 1.5 feet south of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160033 2010" set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below the ground level.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160034	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,792.7290	
<b>Easting (M)</b>	499,315.5280	
<b>Elevation (M)*</b>	76.261	
<b>Northing (SFT)</b>	543,938.3117	
<b>Easting (SFT)</b>	1,638,171.0281	
<b>Elevation (SFT)*</b>	250.199	

  

<b>Convergence Angle</b>	0	38	22.5022559
<b>Scale Factor</b>	0.999944570		
<b>Elevation Adjust. Factor</b>	0.9999880323		
<b>Combined Adjust. Factor</b>	0.9999326030		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Middle of headwall on south end of box culvert	313	11.58	38.0
<b>MK # 2</b>	power pole with guy wire	17	17.68	58.0
<b>MK # 3</b>	power pole	196	10.36	34.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 21.8700264
<b>Longitude</b>	90 54 3.1247532
<b>Ellipsoid Height (M):</b>	48.572
<b>Geoid Height (M):</b>	-27.677

Location Description
To reach the station from the intersection of highway 226 and highway 18 in Cash, go north on highway 18 for 3.2 miles to the station on the right, in the south east quadrant of the intersection of highway 18 and CR160, 1.5 feet west of the witness post, 50 feet east of the centerline of highway 18, 36 feet south of the centerline of CR160. The station mark is a standard 2 1/2 inch aluminum cap stamped "160034 2010" set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160035	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	168,216.7089		
<b>Easting (M)</b>	499,327.2040		
<b>Elevation (M)*</b>	75.385		
<b>Northing (SFT)</b>	551,890.9858		
<b>Easting (SFT)</b>	1,638,209.3351		
<b>Elevation (SFT)*</b>	247.326		

  

<b>Convergence Angle</b>	0	38	23.4004612
<b>Scale Factor</b>	0.999946226		
<b>Elevation Adjust. Factor</b>	0.9999881698		
<b>Combined Adjust. Factor</b>	0.9999343964		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	south end of box CU on east side of Hwy 18	288	12.04	39.5
<b>MK # 2</b>	west end of 36" CMP	0	5.49	18.0
<b>MK # 3</b>	telephone box	70	15.55	51.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160036	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 91	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,213.0370	
<b>Easting (M)</b>	503,194.3170	
<b>Elevation (M)*</b>	78.517	
<b>Northing (SFT)</b>	551,878.9389	
<b>Easting (SFT)</b>	1,650,896.6884	
<b>Elevation (SFT)*</b>	257.600	

  

<b>Convergence Angle</b>	0	39	53.0700284
<b>Scale Factor</b>	0.999946192		
<b>Elevation Adjust. Factor</b>	0.9999876783		
<b>Combined Adjust. Factor</b>	0.9999338710		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	well head north of station mark	10	8.41	27.6
MK # 2	well head west of station mark	240	28.35	93.0
MK # 3	combination pole with transformer	209	32.92	108.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160037	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> CR155	<b>Job Number:</b> 100412
--------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	165,646.9879		
<b>Easting (M)</b>	503,299.5780		
<b>Elevation (M)*</b>	77.784		
<b>Northing (SFT)</b>	543,460.1595		
<b>Easting (SFT)</b>	1,651,242.0322		
<b>Elevation (SFT)*</b>	255.195		

  

<b>Convergence Angle</b>	0	39	54.8199399
<b>Scale Factor</b>	0.999944446		
<b>Elevation Adjust. Factor</b>	0.9999877933		
<b>Combined Adjust. Factor</b>	0.9999322400		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	USGS observation water well	254	0.91	3.0
MK # 2	power pole	75	24.69	81.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	<b>Comments</b>  Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.
--	---

  

Location Description	
To reach the station from the intersection of highway 91 and CR155, go south on CR155 for 1.6 miles to the station on the right, 36 feet west of the centerline of CR155, 2 feet east of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160037 2010" and set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 15.6695160
<b>Longitude</b>	90 51 24.4758060
<b>Ellipsoid Height (M):</b>	50.096
<b>Geoid Height (M):</b>	-27.672

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160038	<b>Date Monumented</b> 12/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> CR 106	<b>Job Number:</b> 100412, br1611
--------------------------	-------------------------------------	------------------------------	----------------------------	------------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,527.4750	
<b>Easting (M)</b>	507,042.1370	
<b>Elevation (M)*</b>	108.848	
<b>Northing (SFT)</b>	543,068.0576	
<b>Easting (SFT)</b>	1,663,520.7445	
<b>Elevation (SFT)*</b>	357.112	

  

<b>Convergence Angle</b>	0	41	21.5430646
<b>Scale Factor</b>	0.999944340		
<b>Elevation Adjust. Factor</b>	0.9999829185		
<b>Combined Adjust. Factor</b>	0.9999272594		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	telephone box	314	15.24	50.0
<b>MK # 2</b>	center of gate	11	19.20	63.0
<b>MK # 3</b>	power ole	150	11.89	39.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> TN42 <b>Ref Mon # 3</b> MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160039	<b>Date Monumented</b> 7/11/2016	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 49	<b>Job Number:</b> 100882
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	170,685.2229 0.0020
<b>Easting (M)</b>	523,777.9619 0.0020
<b>Elevation (M)*</b>	90.714 0.0024
<b>Northing (SFT)</b>	559,989.7688
<b>Easting (SFT)</b>	1,718,428.1967
<b>Elevation (SFT)*</b>	297.618

  

<b>Convergence Angle</b>	0 47 51.1449676
<b>Scale Factor</b>	0.999947824
<b>Elevation Adjust. Factor</b>	0.9999857642
<b>Combined Adjust. Factor</b>	0.9999335889

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 51 50.6503296
<b>Longitude</b>	90 37 45.9060492
<b>Ellipsoid Height (M):</b>	62.826 0.0080
<b>Geoid Height (M):</b>	-27.900

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 91, IN JONESBORO, GO EAST ON HIGHWAY 49 FOR 2.2 MILES TO THE MARK ON THE RIGHT, 49.5 FEET (15.09M) SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160039 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	95	23.16	76.0
<b>MK # 2</b>	CENTER OF MANHOLE	240	9.20	30.2
<b>MK # 3</b>	CENTER OF DROP INLET	275	14.72	48.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	22 FEET 6.70(M) EAST OF THE CL OF CONCRETE ENTRANCE TO BEAR STATE BANK. Three wire levels done by crew S5113 in July 2016 in job 100882.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160039A	<b>Date Monumented</b> 7/11/2016	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 49	<b>Job Number:</b> 100882
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	170,693.8888	0.0020	
<b>Easting (M)</b>	524,210.4832	0.0020	
<b>Elevation (M)*</b>	83.817	0.0024	
<b>Northing (SFT)</b>	560,018.2002		
<b>Easting (SFT)</b>	1,719,847.2270		
<b>Elevation (SFT)*</b>	274.990		

  

<b>Convergence Angle</b>	0	48	1.1792069
<b>Scale Factor</b>	0.999947826		
<b>Elevation Adjust. Factor</b>	0.9999868465		
<b>Combined Adjust. Factor</b>	0.9999346732		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	170	2.38	7.8
<b>MK # 2</b>	POWER POLE	245	31.70	104.0
<b>MK # 3</b>	FIRE HYDRANT	95	28.71	94.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	52.5 FEET 16.00(M) WEST OF THE CL OF OLD BRIDGER ROAD. Three wire levels done by crew S5113 in July 2016 in job 100882.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160040	<b>Date Monumented</b> 10/5/2016	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100835
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	165,369.8818	0.0020	
<b>Easting (M)</b>	519,448.3071	0.0020	
<b>Elevation (M)*</b>	82.641		
<b>Northing (SFT)</b>	542,551.0205		
<b>Easting (SFT)</b>	1,704,223.3209		
<b>Elevation (SFT)*</b>	271.131		

  

<b>Convergence Angle</b>	0	46	9.0717834
<b>Scale Factor</b>	0.999944138		
<b>Elevation Adjust. Factor</b>	0.9999870311		
<b>Combined Adjust. Factor</b>	0.9999311698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire Hydrant	325	15.54	51.0
<b>MK # 2</b>	Center of Catch Basin	170	25.91	85.0
<b>MK # 3</b>	Center of Catch Basin	5	32.31	106.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARWY	<b>Comments</b> Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.
---	--

  

Location Description	
From the intersection of I-555 and South Caraway Road in Jonesboro, Arkansas. Travel North along South Caraway Road 0.65 miles to the station on the left which is located 17.5(M) 57.5(f) West of the center line of South Caraway Road and 22.1(M) 72.5(f) South of the center line of Fowler Street.	

  

<b>AZ Mark Station</b>	160040A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160040A	<b>Date Monumented</b> 10/5/2016	<b>Monumented By</b> AHTD	<b>County</b> Craighead	<b>Route</b> 18	<b>Job Number:</b> 100835,100979
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	166,233.9949	0.0020	
<b>Easting (M)</b>	519,454.2550	0.0020	
<b>Elevation (M)*</b>	86.140		
<b>Northing (SFT)</b>	545,386.0316		
<b>Easting (SFT)</b>	1,704,242.8349		
<b>Elevation (SFT)*</b>	282.610		

  

<b>Convergence Angle</b>	0	46	9.4786028
<b>Scale Factor</b>	0.999944697		
<b>Elevation Adjust. Factor</b>	0.9999864820		
<b>Combined Adjust. Factor</b>	0.9999311798		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	322	5.33	17.5
MK # 2	Signal Pole With Arm	34	6.10	20.0
MK # 3	Light Pole	233	24.20	79.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARWY	Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160041	<b>Date Monumented</b> 7/18/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 100657	<b>Job Number:</b> 100657
--------------------------	-------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	166,939.8225	0.0020	
<b>Easting (M)</b>	524,334.2181	0.0020	
<b>Elevation (M)*</b>	73.118		
<b>Northing (SFT)</b>	547,701.7343		
<b>Easting (SFT)</b>	1,720,253.1805		
<b>Elevation (SFT)*</b>	239.889		

  

<b>Convergence Angle</b>	0	48	2.8320122
<b>Scale Factor</b>	0.999945123		
<b>Elevation Adjust. Factor</b>	0.9999885255		
<b>Combined Adjust. Factor</b>	0.9999336491		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	142	15.73	51.6
<b>MK # 2</b>	NORTH END OF 24" RCP	42	20.73	68.0
<b>MK # 3</b>	SAN SWR MANHOLE	60	20.03	65.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> ARWY	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 49 48.8834760
<b>Longitude</b>	90 37 25.8217356
<b>Ellipsoid Height (M):</b>	45.240
<b>Geoid Height (M):</b>	-27.879

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.6 MILES TO THE MARK ON THE LEFT, WEST 16.6' OF THE C/L OF COMMERCE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160041A	<b>Date Monumented</b> 7/18/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> IMERCE	<b>Job Number:</b> 100657
---------------------------	-------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	167,314.7152	0.0020			
<b>Easting (M)</b>	524,344.9648	0.0020			
<b>Elevation (M)*</b>	73.767				
<b>Northing (SFT)</b>	548,931.6948				
<b>Easting (SFT)</b>	1,720,288.4387				
<b>Elevation (SFT)*</b>	242.016				

  

<b>Convergence Angle</b>	0	48	3.2026475
<b>Scale Factor</b>	0.999945377		
<b>Elevation Adjust. Factor</b>	0.9999884238		
<b>Combined Adjust. Factor</b>	0.9999338014		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	174	9.45	31.0
MK # 2	WATER METER	23	8.84	29.0
MK # 3	LIGHT POLE	72	26.00	85.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2: ARPG	
Ref Mon # 3: ARWY	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 50 1.0415940
<b>Longitude</b>	90 37 25.1847948
<b>Ellipsoid Height (M):</b>	45.885
<b>Geoid Height (M):</b>	-27.881

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.85 MILES TO THE MARK ON THE RIGHT, EAST 18" OF THE C/L OF COMMERCE DRIVE AND 41' SOUTH OF A ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160042	<b>Date Monumented</b> 7/18/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100657
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	755,542.3144	0.0020			
<b>Easting (M)</b>	524,841.5599	0.0020			
<b>Elevation (M)*</b>	79.401				
<b>Northing (SFT)</b>	2,478,808.4098				
<b>Easting (SFT)</b>	1,721,917.6844				
<b>Elevation (SFT)*</b>	260.502				

  

<b>Convergence Angle</b>	0	46	23.9485165
<b>Scale Factor</b>	1.000429896		
<b>Elevation Adjust. Factor</b>	0.9999875395		
<b>Combined Adjust. Factor</b>	1.0004174302		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT & TRANS FORMER	100	13.41	44.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2: ARPG	
Ref Mon # 3: ARWY	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 51 50.6715768
<b>Longitude</b>	90 37 5.9159532
<b>Ellipsoid Height (M):</b>	51.491
<b>Geoid Height (M):</b>	-27.910

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 1.8 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 16.0', 70.5' WEST OF THE C/L OF AN ASPHALT DRIVE AND 97' EAST OF THE C/L OF A CONCRETE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160042A	<b>Date Monumented</b> 7/18/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 100657
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	170,741.7979	0.0020			
<b>Easting (M)</b>	525,277.3711	0.0020			
<b>Elevation (M)*</b>	79.551				
<b>Northing (SFT)</b>	560,175.3819				
<b>Easting (SFT)</b>	1,723,347.5084				
<b>Elevation (SFT)*</b>	260.992				

  

<b>Convergence Angle</b>	0	48	25.9390725
<b>Scale Factor</b>	0.999947852		
<b>Elevation Adjust. Factor</b>	0.9999875161		
<b>Combined Adjust. Factor</b>	0.9999353687		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	154	16.45	54.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2: ARPG	
Ref Mon # 3: ARWY	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 51 51.8045400
<b>Longitude</b>	90 36 46.1120004
<b>Ellipsoid Height (M):</b>	51.635
<b>Geoid Height (M):</b>	-27.916

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 2.1 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 12.5', 29' EAST OF THE C/L OF AN ASPHALT DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160043	<b>Date Monumented</b> 2/4/2020	<b>Monumented By</b> ARDOT S5113	<b>County</b> CRAIGHEAD	<b>Route</b> I-555	<b>Job Number:</b> 100959
--------------------------	------------------------------------	-------------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 164,254.4826	<b>0.0009</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 517,629.4505	<b>0.0009</b>	<b>Latitude</b> 35 48 24.7178196
<b>Elevation (M)*</b>		<b>Longitude</b> 90 41 54.3598872
<b>Northing (SFT)</b> 538,891.5817		<b>Ellipsoid Height (M):</b> 63.688 0.0057
<b>Easting (SFT)</b> 1,698,255.9555		<b>Geoid Height (M):</b> -27.801 0.0057
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	45	26.5698959
<b>Scale Factor</b>	0.999943459		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>
INTERSECTION OF I 555 & HARRISBURG RD SE END OF OVERPASS BEHIND CONCRETE BARRIER

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE OF BRIDGE BARRIER	122	1.20	3.9
<b>MK # 2</b>	SW OF I DRIVE CAMERA POLE	271	17.10	56.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	ELEVATION (300.1602 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> AROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160043A	<b>Date Monumented</b> 2/4/2020	<b>Monumented By</b> ARDOT S5113	<b>County</b> CRAIGHEAD	<b>Route</b> I-555	<b>Job Number:</b> 100959
---------------------------	------------------------------------	-------------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	164,342.1717	0.0009			
<b>Easting (M)</b>	517,947.1249	0.0009			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	539,179.2750				
<b>Easting (SFT)</b>	1,699,298.1923				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	45	33.9594476
<b>Scale Factor</b>	0.999943510		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
INTERSECTION OF I555 AND HIGDON RD OVERPASS GO NW .2 MILEST TO WINDOVER RD GO WEST .5 MILES TO BROWNS LANE ACCESS RD GO SE .2 MILES TO STATION ON THE RIGHT.			

  

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4' TO SHOULDER OF ACCESS ROAD	220	1.20	3.9
<b>MK # 2</b>	100'FROM LIGHT POLE	69	30.50	100.1
<b>MK # 3</b>	41' FROM END OF 24" RCP	325	12.50	41.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> AROC	ELEVATION (284.8288 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160044	<b>Date Monumented</b> 2/4/2020	<b>Monumented By</b> ARDOT S5113	<b>County</b> CRAIGHEAD	<b>Route</b> I-555	<b>Job Number:</b> 100959
--------------------------	------------------------------------	-------------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b> Geoid12B		
<b>Northing (M)</b> 164,397.4467	<b>0.0008</b>	<b>Latitude</b> 35 48 28.2074112
<b>Easting (M)</b> 520,278.0648	<b>0.0009</b>	<b>Longitude</b> 90 40 8.7909816
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 56.592 0.0018
<b>Northing (SFT)</b> 539,360.6230		<b>Geoid Height (M):</b> -27.824 0.0018
<b>Easting (SFT)</b> 1,706,945.6176		
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 46 28.0003501	<b>Location Description</b> INTERSECTON OF I555 AND STADIUM BLVD NORTH OF I555 OVERPASS EAST OF STADIUM BLVD GUARDRAIL END OF BRIDGE
<b>Scale Factor</b> 0.999943524	
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	10' OF GUARDRAIL	12	3.00	9.8
<b>MK # 2</b>	7. OF STADIUM BLVD SHOULDER	90	2.10	6.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	ELEVATION (276.9548 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> AROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160044A	<b>Date Monumented</b> 2/4/2020	<b>Monumented By</b> ARDOT S5113	<b>County</b> CRAIGHEAD	<b>Route</b> I-555	<b>Job Number:</b> 100959
---------------------------	------------------------------------	-------------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	164,211.1056	0.0008			
<b>Easting (M)</b>	520,380.6691	0.0009			
<b>Elevation (M)*</b>	78.652				
<b>Northing (SFT)</b>	538,749.2690				
<b>Easting (SFT)</b>	1,707,282.2452				
<b>Elevation (SFT)*</b>	258.044				

  

<b>Convergence Angle</b>	0	46	30.3199629
<b>Scale Factor</b>	0.999943410		
<b>Elevation Adjust. Factor</b>	0.9999876571		
<b>Combined Adjust. Factor</b>	0.9999310678		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
FROM I555 AND STADIUM BLVD OVERPASS GO SOUTH .1 MILES TO ON RAMP GO EAST .1 TO STATION ON THE LEFT			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	26' E OF SEWER MANHOLE	122	7.90	25.9
MK # 2	38' END OF 24" RCP	325	11.60	38.1
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  ELEVATION BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 1	ARJB	
Ref Mon # 2	ARPG	
Ref Mon # 3	AROC	

  

<b>AZ Mark Station</b>	160044
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 17 EV 1973	<b>Date Monumented</b> 3/1/2011	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 371	<b>Job Number:</b> 030394
------------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	494,999.5502	
<b>Easting (M)</b>	279,346.9340	
<b>Elevation (M)*</b>	106.564	
<b>Northing (SFT)</b>	1,624,011.0243	
<b>Easting (SFT)</b>	916,490.7326	
<b>Elevation (SFT)*</b>	349.620	

  

<b>Convergence Angle</b>	0	43	36.8488837
<b>Scale Factor</b>	0.999959085		
<b>Elevation Adjust. Factor</b>	0.9999832769		
<b>Combined Adjust. Factor</b>	0.9999423625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 300 FEET TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 30.7 FEET, SOUTH OF THE CENTERLINE OF A CONCRETE DRIVE 25.4 FEET AND 1 FOOT SOUTH OF A WITNESS POST. THE STATION MARK IS A 4 INCH BRASS CAP STAMPED "17 EV 1973" ON TOP OF AN IRON REBAR DRIVEN TO 8 INCHES ABOVE THE GROUND SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/E COR. OF BUILDING	203	6.55	21.5
MK # 2	CP WITH GUY & LIGHT	180	0.43	1.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>290020</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	290020	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">THIRD ORDER BENCH</td> </tr> </table>	Comments	THIRD ORDER BENCH
Ref Mon # 1	ARCM								
Ref Mon # 2	ARHP								
Ref Mon # 3	290020								
Comments									
THIRD ORDER BENCH									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170001	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 282	<b>Job Number:</b> 040456,40086,040086
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 127,107.8311		<b>Latitude</b> 35 27 24.7452516
<b>Easting (M)</b> 190,280.0990		<b>Longitude</b> 94 18 38.1896244
<b>Elevation (M)*</b> 149.063		<b>Ellipsoid Height (M):</b> 119.437
<b>Northing (SFT)</b> 417,019.6092		<b>Geoid Height (M):</b> -29.630
<b>Easting (SFT)</b> 624,277.2915		
<b>Elevation (SFT)*</b> 489.052		

  

<b>Convergence Angle</b> -1 20 40.3472893	<b>Location Description</b>
<b>Scale Factor</b> 0.999938393	<p>FROM THE JCT. OF HWY. 71 AND HWY. 64 IN ALMA, GO WEST ON HWY. 64 TO THE JCT. OF HWY. 64 AND HWY. 282, TURN NORTH ON HWY. 282 AND GO 0.40 MILES ACROSS A BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 2.70 FEET EAST OF THE GUARD RAIL AND 5.10 FEET NORTH OF A WITNESS POST.</p>
<b>Elevation Adjust. Factor</b> 0.9999766076	
<b>Combined Adjust. Factor</b> 0.9999150021	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> NAD 83 (1986)			
<b>Latitude</b> 35 27 24.7524012			
<b>Longitude</b> 94 18 38.1858084			
<b>Ellipsoid Height:</b> 121.164			
<b>Grid Northing (Meters)</b> 127,108.0491			
<b>Grid Easting (Meters)</b> 190,280.2003			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	261	11.26	36.9		
MK # 2	NBC IN TOP OF FENCE POST	171	1.67	5.5		
MK # 3	NBC IN TOP OF FENCE POST	94	4.97	16.3		

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> DQUA, 170011 <b>Ref Mon # 2</b> ARFY, 170012 <b>Ref Mon # 3</b> SAL1, 170013	<b>Comments</b>  ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170001A	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 540	<b>Job Number:</b> 040456,40086,BB0407,040086
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 126,920.0370		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 189,348.0194		<b>Latitude</b> 35 27 17.9418802
<b>Elevation (M)*</b> 148.408		<b>Longitude</b> 94 19 14.9698099
<b>Northing (SFT)</b> 416,403.4881		<b>Ellipsoid Height (M):</b> 118.759
<b>Easting (SFT)</b> 621,219.2936		<b>Geoid Height (M):</b> -29.648
<b>Elevation (SFT)*</b> 486.900		

  

<b>Convergence Angle</b> -1 21 1.7496472	<b>Scale Factor</b> 0.999938467	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999767106	<b>Combined Adjust. Factor</b> 0.9999151790	THE STATION IS BETWEEN THE SOUTH ENDS OF THE I-540 BRIDGES AT THE I-540 AND I-40 INTERCHANGE, 37.0 FEET SOUTHWEST OF THE SOUTHWEST BRIDGE END OF BRIDGE NO. 3453, 48.0 FEET SOUTHEAST OF THE SOUTHEAST BRIDGE END OF BRIDGE NO. 3452 AND 33.20 FEET WEST OF A WITNESS POST ON A HIGH POINT IN THE MEDIAN.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> NAD 83 (1986)		
<b>Latitude</b> 35 27 17.9481600		
<b>Longitude</b> 94 19 14.9655400		
<b>Ellipsoid Height:</b> 120.319		
<b>Grid Northing (Meters)</b> 126,920.2280		
<b>Grid Easting (Meters)</b> 189,348.1316		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	"X" CUT IN TOP OF BRIDGE END	277		14.00	45.9
<b>MK # 2</b>	"X" CUT IN TOP OF CONCRETE GUARD R	84		11.32	37.1
<b>MK # 3</b>	"X" CUT IN TOP OF CONCRETE GUARD RAIL	120		13.41	44.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DQUA, 170011	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "J 311" USING DIGITAL LEVELS.
<b>Ref Mon # 2</b> ARFY, 170012	
<b>Ref Mon # 3</b> SAL1, 170013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170002A	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 40	<b>Job Number:</b> 040456,40086,040086
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	127,919.3070	
<b>Easting (M)</b>	192,824.0790	
<b>Elevation (M)*</b>	161.745	
<b>Northing (SFT)</b>	419,681.9264	
<b>Easting (SFT)</b>	632,623.6659	
<b>Elevation (SFT)*</b>	530.658	

  

<b>Convergence Angle</b>	-1	19	42.0873875
<b>Scale Factor</b>	0.999938100		
<b>Elevation Adjust. Factor</b>	0.9999746176		
<b>Combined Adjust. Factor</b>	0.9999127192		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	27	53.0024616
<b>Longitude</b>	94	16	58.0669104
<b>Ellipsoid Height:</b>	134.333		
<b>Grid Northing (Meters)</b>	127,919.5264		
<b>Grid Easting (Meters)</b>	192,824.1455		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST		261	4.58	15.0
MK # 2	NBC IN TOP OF FENCE POST		23	2.32	7.6
MK # 3	NBC IN TOP OF FENCE POST		51	8.06	26.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, 170011	ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.
Ref Mon # 2 DQUA, 170012	
Ref Mon # 3 SAL1, 170013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170003	<b>Date Monumented</b> 5/11/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 220	<b>Job Number:</b> 40128
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	154,223.2299	
<b>Easting (M)</b>	188,967.4100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	505,980.7134	
<b>Easting (SFT)</b>	619,970.5776	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	25.4530820
<b>Scale Factor</b>	0.999938002		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 59 AND HWY. 220 NORTH OF CEDARVILLE, TURN RIGHT ON HWY. 220 AND GO 9.43 MILES TO THE STATION ON THE LEFT, THE STATION IS 46 FEET WEST OF THE CENTERLINE OF HWY. 220 AND 2.0 FEET EAST OF A WITNESS POST.</p>			

  

Location Reference Marks							
Description			Azimuth	Distance		AZ Mark Station	
				Meters	Feet		
MK # 1	NBC IN 6" PINE		77	23.55	77.3		SEE NOTES
MK # 2	NBC IN 8" CEDAR		104	24.74	81.2		144 58 42.6
MK # 3	NBC IN 10" CEDAR		190	33.88	111.2		146 20 08.05

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BOSTON AZ. #2	<p>AZIMUTH MARK IS T-1 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170003)</p>
Ref Mon # 2 GRASSY ROCK RESET	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170004	<b>Date Monumented</b> 5/11/1993	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 220	<b>Job Number:</b> 40128
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 155,582.7399		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 191,188.8740		<b>Latitude</b> 35 42 49.1567616
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 18 28.6259436
<b>Northing (SFT)</b> 510,441.0392		<b>Ellipsoid Height (M):</b> 238.189
<b>Easting (SFT)</b> 627,258.8308		<b>Geoid Height (M):</b> -29.196
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 20 34.7821918	<b>Location Description</b>  FROM CEDARVILLE GO NORTH TO HWY. 220, TURN RIGHT AND GO TO THE END OF STATE MAINTENANCE OF HWY. 220 CROSSING BRIDGE OVER LEE CREEK. CONTINUE AHEAD 0.62 MILES TO A "Y", GO RIGHT 1.0 MILES CROSSING A LOW WATER BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 114.31 FEET NORTH OF THE LOW WATER BRIDGE, 16.95 FEET EAST OF THE CENTER LINE OF CO. RD. NO. 61 AND 2.00 FEET WEST OF A WITNESS POST.
<b>Scale Factor</b> 0.999938477	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN DOUBLE 8" PINE	25	20.64	67.7
MK # 2	NBC IN 8" PINE	73	20.65	67.8
MK # 3	NBC IN 12" GUM	135	15.96	52.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BOSTON AZ. #2	AZIMUTH MARK IS T-27 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170004)
<b>Ref Mon # 2</b> GRASSY ROCK RESET	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170005A	<b>Date Monumented</b> 9/13/1995	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> I-40	<b>Job Number:</b> 40226,040348,040714, 04087
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	127,959.1898    0.0040
<b>Easting (M)</b>	185,528.2761    0.0040
<b>Elevation (M)*</b>	159.380

  

<b>Northing (SFT)</b>	419,812.7752	
<b>Easting (SFT)</b>	608,687.3525	
<b>Elevation (SFT)*</b>	522.898	

  

<b>Convergence Angle</b>	-1	22	30.4494952
<b>Scale Factor</b>	0.999938143		
<b>Elevation Adjust. Factor</b>	0.9999749887		
<b>Combined Adjust. Factor</b>	0.9999131333		

  

SUPERCEDED CONTROL

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	35    27    48.7110276
<b>Longitude</b>	94    21    47.3955588
<b>Ellipsoid Height:</b>	129.117
<b>Grid Northing (Meters)</b>	127,959.3941
<b>Grid Easting (Meters)</b>	185,528.4300

  

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO WEST ON I-40 FROM THE OVERPASS FOR 0.563 KM (0.35 MILES) TO THE STATION IN THE MEDIAN. THE STATION IS 4.40 METERS NORTH OF THE EDGE OF THE EASTBOUND LANES AND 1.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.\*\*\*UPDATED DESCRIPTION\*\*\* GUARD RAIL HAS BEEN REPLACED AND ROAD HAS BEEN OVERLAID. MARK IS 6.5 FEET NORTH FROM BACK OF GUARD RAIL ON EAST BOUND LANE. MARK IS 1.0 FEET BELOW GROUND AND 3 FT NORTH OF WITNESS POST.

  

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	"X" CUT IN CENTER OF CONCRETE HEADW ATT	59	53.30	174.9
<b>MK # 2</b>	"X" CUT IN CENTER OF CONCRETE HEADW ATT	90	25.70	84.3
<b>MK # 3</b>	PUNCH MARK IN TOP OF GUARD RAIL POS ATT	263	6.05	19.8

  

<b>AZ Mark Station</b>	170005
<b>Geodetic Azimuth</b>	99 36 54.9001
<b>Grid Azimuth</b>	100 59 25.3272

  

<p style="text-align: center; font-weight: bold;">Area Reference Monuments (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY (92170001)</p> <p><b>Ref Mon # 2</b>    ARRV (FORT SMITH GIS NO.)</p> <p><b>Ref Mon # 3</b>    OKHV (GRASSY OFFSET)</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-weight: bold;">Comments</p> <p>OLD ELEV. 159.375m BASED ON NGVD29 = 159.280 meters ELEVATION BY 3-WIRE USING AHTD BM SET IN THE TOP OF E ABUTMENT 24 FT S OF C/L OF EASTBOUND LANE OF BR NO. 3273B AT HWY. 59 OVERPASS.</p> <p>*****NEW ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST</p> </div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170006	<b>Date Monumented</b> 9/19/1995	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040226,B40107
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 125,005.5831		<b>Latitude</b> 35 26 13.5848256
<b>Easting (M)</b> 186,423.7570		<b>Longitude</b> 94 21 9.0954792
<b>Elevation (M)*</b> 135.296		<b>Ellipsoid Height (M):</b> 105.123
		<b>Geoid Height (M):</b> -30.260

  

<b>Northing (SFT)</b> 410,122.4839		<b>Location Description</b>
<b>Easting (SFT)</b> 611,625.2761		<p>FROM THE JCT. OF HWY. 59 AND MAIN STREET IN THE TOWN OF VAN BUREN, GO 38.0 METERS NORTH ON HWY. 59 TO THE STATION ON THE RIGHT. THE STATION IS 31.0 METERS NORTHWEST OF THE OZARK SCENIC RAILWAY DEPOT, WHICH IS ALSO THE CHAMBER OF COMMERCE, 11.55 METERS EAST OF THE CENTER OF HWY. 59, 10.23 METERS NORTH-NORTHWEST OF THE NORTHERNMOST RAIL OF THE RAILROAD TRACK AND 0.55 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170006 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 443.884		

  

<b>Convergence Angle</b> -1 22 8.1592746		
<b>Scale Factor</b> 0.999939215		
<b>Elevation Adjust. Factor</b> 0.9999787681		
<b>Combined Adjust. Factor</b> 0.9999179844		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	325	10.60	34.8
MK # 2	POWER POLE	63	12.39	40.6
MK # 3	RAILROAD SIGNAL LIGHT POLE	178	16.90	55.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 92170001	<p>From NGS point R28 NGVD29 = 135.038 meters 135.383 meters THE ELEVATION BY 3-WIRE USING USC&amp;GS BENCH MARK NO. "R 28 1932".</p> <p>*****NOTE: S5112 FOUND MARK DESTROYED IN NOV. 2015 &amp; REPLACED W/GPS # 170027</p> <p>*****</p>
Ref Mon # 2 FORT SMITH GIS NO. 103	
Ref Mon # 3 GRASSY OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170006A	<b>Date Monumented</b> 9/19/1995	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> B40107,4594,03D04,040721,
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 12A		<b>Latitude</b> 35 26 19.8152196
<b>Northing (M)</b> 125,186.3939	<b>0.0030</b>	<b>Longitude</b> 94 20 50.5900464
<b>Easting (M)</b> 186,894.9211	<b>0.0030</b>	<b>Ellipsoid Height (M):</b> 105.631 0.0080
<b>Elevation (M)*</b> 135.459		<b>Geoid Height (M):</b> -29.824 0.0080

  

<b>Northing (SFT)</b> 410,715.6940		<b>Location Description</b>
<b>Easting (SFT)</b> 613,171.0870		FROM THE JCT. OF HWY. 59 AND MAIN STREET IN THE TOWN OF VAN BUREN, GO EAST ON HWY. 59 (MAIN STREET) FOR 0.820 KM (0.25 MILES) TO SOUTH ELEVENTH (11TH) STREET, TURN LEFT AND GO NORTH ON ELEVENTH STREET (11TH) FOR 0.492 KM (0.15 MILES) TO CEDAR STREET, TURN RIGHT ON CEDAR STREET AND GO 0.164 KM (0.05MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF THE VAN BUREN PUBLIC LIBRARY, 8.89 METERS NORTH OF THE CENTER OF CEDAR STREET, 3.50 METERS SOUTH OF THE SOUTHERNMOST RAIL OF THE RAILROAD TRACK AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170006A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Elevation (SFT)*</b> 444.419		

  

<b>Convergence Angle</b> -1 21 57.3909794	<b>Scale Factor</b> 0.999939139
<b>Elevation Adjust. Factor</b> 0.9999787425	<b>Combined Adjust. Factor</b> 0.9999178828

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b> NAD 83 (1986)	<b>Latitude</b> 35 26 19.8217572	<b>Longitude</b> 94 20 50.5846860	
<b>Ellipsoid Height:</b> 105.217	<b>Grid Northing (Meters)</b> 125,186.5921		
<b>Grid Easting (Meters)</b> 186,895.0610			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LAMP POST	188	19.25	63.2
MK # 2	RAILROAD CROSSING SIGN	243	12.15	39.9
MK # 3	CHAIN LINK FENCE CORNER	287	20.00	65.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY (92170001)	OLD ELEV. (135.379m) From NGS point R28 135.466 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932". *****UPDATE D ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 1ST ORDER NGS BM R 28 *****UPDATE
<b>Ref Mon # 2</b> ARHR(FORT SMITH GIS NO. 1)	
<b>Ref Mon # 3</b> ARLR, SAL5 (GRASSY OFFSE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170007	<b>Date Monumented</b> 6/18/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> I 540	<b>Job Number:</b> 61,R40116,040485,040373,04
--------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	130,175.3256 0.0010
<b>Easting (M)</b>	196,496.6439 0.0010
<b>Elevation (M)*</b>	139.741
<b>Northing (SFT)</b>	427,083.5474
<b>Easting (SFT)</b>	644,672.7392
<b>Elevation (SFT)*</b>	458.467

  

<b>Convergence Angle</b>	-1 18 18.5318824
<b>Scale Factor</b>	0.999937403
<b>Elevation Adjust. Factor</b>	0.9999780705
<b>Combined Adjust. Factor</b>	0.9999154749

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35 29	8.9207304	
<b>Longitude</b>	94 14	34.4785776	
<b>Ellipsoid Height:</b>	110.305		
<b>Grid Northing (Meters)</b>	130,175.3280		
<b>Grid Easting (Meters)</b>	196,496.6370		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF PARAPET WALL	95	5.47	17.9
MK # 2	NORTH END OF APPROACH GUTTER	21	4.60	15.1
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, (ARFY, 170011)	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40. *****3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHR, (DQUA, 70012)	
Ref Mon # 3 OKHV, (SAL1, 170013)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170007A	<b>Date Monumented</b> 6/18/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> NA	<b>Job Number:</b> 61,R40116,040485,040721,04
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	130,228.3942    0.0010
<b>Easting (M)</b>	197,007.0835    0.0010
<b>Elevation (M)*</b>	141.855

  

<b>Northing (SFT)</b>	427,257.6566	
<b>Easting (SFT)</b>	646,347.4064	
<b>Elevation (SFT)*</b>	465.404	

  

<b>Convergence Angle</b>	-1	18	6.7786326
<b>Scale Factor</b>	0.999937386		
<b>Elevation Adjust. Factor</b>	0.9999777387		
<b>Combined Adjust. Factor</b>	0.9999151261		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	29	11.0191632
<b>Longitude</b>	94	14	14.2804356
<b>Ellipsoid Height:</b>	112.428		
<b>Grid Northing (Meters)</b>	130,228.3981		
<b>Grid Easting (Meters)</b>	197,007.0780		

  

**Location Description**  
  
 TO REACH THE STATION FROM THE JUNCTION OF HWY-71B, HWY-64 AND HWY-162 AT ALMA, GO WESTERLY ON HWY-71B & HWY-64 FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF "RUDY ROAD", TURN RIGHT AND GO NORTHERLY ON "RUDY ROAD" FOR 0.89 KM. (0.55 MI.) TO THE NORTH END OF A BRIDGE OVER INTERSTATE 40 AND THE STATION ON THE LEFT. 8.0 METERS NORTHWEST OF A FENCE CORNER POST, 6.90 METERS SOUTHWEST OF THE CENTER OF "RUDY ROAD" AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BENCH MARK DISK	116	8.50	27.9
<b>MK # 2</b>	PUNCH MARK IN GUARD RAIL POST	36	1.35	4.4
<b>MK # 3</b>	PUNCH MARK IN GUARD RAIL POST	317	7.76	25.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, (ARFY, 170011)	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40. *****3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARHR, (DQUA, 170012)	
<b>Ref Mon # 3</b> OKHV, (SAL1, 170013)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170008	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 001747
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,578.0471	
<b>Easting (M)</b>	192,796.4560	
<b>Elevation (M)*</b>	121.764	
<b>Northing (SFT)</b>	382,473.1429	
<b>Easting (SFT)</b>	632,533.0394	
<b>Elevation (SFT)*</b>	399.487	

  

<b>Convergence Angle</b>	-1	19	36.6635218
<b>Scale Factor</b>	0.999943382		
<b>Elevation Adjust. Factor</b>	0.9999808916		
<b>Combined Adjust. Factor</b>	0.9999242747		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 2.17 KM (1.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.20 METERS SOUTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 712 in job 001747</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FS 2</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170008A	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 001747,040373,040748
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	116,607.9037 0.0010
<b>Easting (M)</b>	192,408.4142 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	382,571.0974	
<b>Easting (SFT)</b>	631,259.9389	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	45.6218110
<b>Scale Factor</b>	0.999943370		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	21	45.7317180
<b>Longitude</b>	94	17	4.1441712
<b>Ellipsoid Height:</b>	92.370		
<b>Grid Northing (Meters)</b>	116,607.9061		
<b>Grid Easting (Meters)</b>	192,408.3920		

  

Location Description			
<p>TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.40 METERS NORTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as VPT 627 in job 001747</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> ARFY, (FS 2)</p> <p><b>Ref Mon # 2</b> ARHR, (Q 299)</p> <p><b>Ref Mon # 3</b> OKHV, (GAYLOR)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 29.938m AND PREVIOUS ELEV. WAS 122.259m</p> <p>***** 3/7/2017</p> <p>GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR &amp; ARFS AND ON 1ST ORDER USC &amp;</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170009	<b>Date Monumented</b> 10/17/2001	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 215	<b>Job Number:</b> 040351
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	134,441.2521	
<b>Easting (M)</b>	214,413.3540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	441,079.3413	
<b>Easting (SFT)</b>	703,454.4789	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	11	27.0383937
<b>Scale Factor</b>	0.999936419		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF OVERPASS	30	3.00	9.8
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	156	8.00	26.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> GAYLOR	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> AHTD FS 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 31 39.9759456
<b>Longitude</b>	94 2 47.3222508
<b>Ellipsoid Height (M):</b>	117.738
<b>Geoid Height (M):</b>	-29.101

Location Description
<p>THIS STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 215 AND I 40. IT IS IN THE SOUTHWEST QUADRANT, AT THE SOUTHWEST CORNER OF THE OVERPASS. THE STATION IS 7.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 215 AND 2.08 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170009A	<b>Date Monumented</b> 10/17/2001	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 040351
---------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	134,552.6590	
<b>Easting (M)</b>	213,593.2440	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	441,444.8487	
<b>Easting (SFT)</b>	700,763.8347	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	11	46.0311022
<b>Scale Factor</b>	0.999936404		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.322 KM (0.2 MI) TO SLATE HILL ROAD (a county road), TURN LEFT, (WEST) ON SLATE HILL ROAD FOR 0.901 KM (0.56 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF SLATE HILL ROAD AND 1.22 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: OZARPORT</p> <p>Ref Mon # 3: AHTD FS 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170010	<b>Date Monumented</b> 10/17/2001	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 040351
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	135,361.5820	
<b>Easting (M)</b>	217,810.2400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	444,098.7903	
<b>Easting (SFT)</b>	714,599.0957	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	9.0263108
<b>Scale Factor</b>	0.999936278		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.241 KM (0.15 MI) TO WIRE ROAD ON THE RIGHT. TURN RIGHT (EAST) ON WIRE ROAD AND GO EAST FOR 3.541 KM (2.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 8.00 METERS SOUTH OF THE CENTER OF WIRE ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170010 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.744 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	325	17.90	58.7
MK # 2	CORRIGATED METAL PIPE	278	4.50	14.8
MK # 3	TELEPHONE JUNCTION BOX	242	19.85	65.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    GAYLOR</p> <p>Ref Mon # 2    OZARPORT</p> <p>Ref Mon # 3    AHTD FS 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170010A	<b>Date Monumented</b> 10/17/2001	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 040351
---------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	135,522.8951	
<b>Easting (M)</b>	218,232.1610	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	444,628.0317	
<b>Easting (SFT)</b>	715,983.3482	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	9	59.3574677
<b>Scale Factor</b>	0.999936256		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	253	30.25	99.2
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	170010
<b>Geodetic Azimuth</b>	247 54 36
<b>Grid Azimuth</b>	249 04 36

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 AHTD FS 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170011	<b>Date Monumented</b> 9/24/2002	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 540	<b>Job Number:</b> 040130,40456,BB0407
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 125,371.3711		<b>Latitude</b> 35 26 27.7510956
<b>Easting (M)</b> 189,411.4830		<b>Longitude</b> 94 19 11.0067888
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 106.959
<b>Northing (SFT)</b> 411,322.5734		<b>Geoid Height (M):</b> -29.703
<b>Easting (SFT)</b> 621,427.5071		
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 20 59.4435687	<b>Scale Factor</b> 0.999939042
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER RAILROAD OVERPAS	200	3.50	11.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	329	5.35	17.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	337	7.95	26.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS 2	
<b>Ref Mon # 2</b> GAYLOR	
<b>Ref Mon # 3</b> SALISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170012	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040431,040456
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,021.1121	
<b>Easting (M)</b>	198,370.1220	
<b>Elevation (M)*</b>	129.759	
<b>Northing (SFT)</b>	426,577.5986	
<b>Easting (SFT)</b>	650,819.3086	
<b>Elevation (SFT)*</b>	425.717	

  

<b>Convergence Angle</b>	-1	17	35.2110038
<b>Scale Factor</b>	0.999937434		
<b>Elevation Adjust. Factor</b>	0.9999796370		
<b>Combined Adjust. Factor</b>	0.9999170723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	W edge of paved drive	60	29.30	96.1
MK # 2	SW corner of concrete drive	82	23.15	76.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD FS 2	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
Ref Mon # 2 Gaylor	
Ref Mon # 3 Ozarport, 170011	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170012A	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040431,040456
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,303.1501	
<b>Easting (M)</b>	198,959.5160	
<b>Elevation (M)*</b>	132.546	
<b>Northing (SFT)</b>	427,502.9183	
<b>Easting (SFT)</b>	652,753.0121	
<b>Elevation (SFT)*</b>	434.863	

  

<b>Convergence Angle</b>	-1	17	21.7542453
<b>Scale Factor</b>	0.999937355		
<b>Elevation Adjust. Factor</b>	0.9999791996		
<b>Combined Adjust. Factor</b>	0.9999165559		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW corner of headwall	52	22.90	75.1
<b>MK # 2</b>	Guy wire	114	26.60	87.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS 2	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
<b>Ref Mon # 2</b> Gaylor	
<b>Ref Mon # 3</b> 170011,Ozarport,	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170013	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040431,040456
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	127,906.5671	
<b>Easting (M)</b>	193,704.1300	
<b>Elevation (M)*</b>	156.811	
<b>Northing (SFT)</b>	419,640.1289	
<b>Easting (SFT)</b>	635,510.9665	
<b>Elevation (SFT)*</b>	514.471	

  

<b>Convergence Angle</b>	-1	19	21.7742698
<b>Scale Factor</b>	0.999938097		
<b>Elevation Adjust. Factor</b>	0.9999753918		
<b>Combined Adjust. Factor</b>	0.9999134904		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	278	7.80	25.6
<b>MK # 2</b>	gas meter	32	11.40	37.4
<b>MK # 3</b>	Water valve	59	9.50	31.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS 2	
<b>Ref Mon # 2</b> Gaylor	
<b>Ref Mon # 3</b> 170011, Ozarport,	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 27 53.2426104
<b>Longitude</b>	94 16 23.1610332
<b>Ellipsoid Height (M):</b>	127.248
<b>Geoid Height (M):</b>	-29.563

Location Description
<p>To reach the station from the junction of highways 71B and 64 in Alma go west on hwy-64 for 2.90 miles to the station on the right in front of a church parking lot. 18.10 meters northwest of the center of the west bound lane of hwy-64 and 0.50 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "170013 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170013A	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040431,040456
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	128,149.4360	
<b>Easting (M)</b>	194,330.6060	
<b>Elevation (M)*</b>	152.718	
<b>Northing (SFT)</b>	420,436.9413	
<b>Easting (SFT)</b>	637,566.3299	
<b>Elevation (SFT)*</b>	501.043	

  

<b>Convergence Angle</b>	-1	19	7.4479110
<b>Scale Factor</b>	0.999938014		
<b>Elevation Adjust. Factor</b>	0.9999760341		
<b>Combined Adjust. Factor</b>	0.9999140496		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Southeast corner of a headwall	248	4.10	13.5
<b>MK # 2</b>	Southeast corner of a headwall	184	7.70	25.3
<b>MK # 3</b>	Center of a paved turn around	60	16.70	54.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD FS 2	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
<b>Ref Mon # 2</b> Gaylor	
<b>Ref Mon # 3</b> 170011,Ozarport,	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    28    1.5900024
<b>Longitude</b>	94    15    58.5410292
<b>Ellipsoid Height (M):</b>	123.098
<b>Geoid Height (M):</b>	-29.548

  

Location Description
<p>To reach the station from the junction of highways 71B and 64 in Alma go west on highway 64 for 2.50 miles to the station on the left just west of a paved lane connecting the east and west bound lanes. The station is 11.30 meters northwest of the center of the east bound lane of hwy-64 and 9.40 meters southeast of the center of the west bound lane and 0.50 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "170013A 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170014	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 282	<b>Job Number:</b> 040445,040256
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,365.2030	
<b>Easting (M)</b>	199,234.5360	
<b>Elevation (M)*</b>	206.074	
<b>Northing (SFT)</b>	463,795.6702	
<b>Easting (SFT)</b>	653,655.3069	
<b>Elevation (SFT)*</b>	676.094	

  

<b>Convergence Angle</b>	-1	17	21.1524971
<b>Scale Factor</b>	0.999935937		
<b>Elevation Adjust. Factor</b>	0.9999676613		
<b>Combined Adjust. Factor</b>	0.9999036004		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTAINBURG, GO WEST ON HIGHWAY 282 3.8 MILES TO A COUNTY ROAD ON THE RIGHT KNOWN AS OVERLOOK TRAIL, AND TURN RIGHT AND GO PAST THIRD FIELD ENTRANCE ON THE LEFT TO THE STATION ON THE LEFT, 16.90 METERS NORTHEAST OF THE CENTERLINE OF THE ROAD AND SOUTHWEST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170014 2004" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	22	11.55	37.9
MK # 2	16" CMP	199	10.95	35.9
MK # 3	C/L FIELD ENTRANCE ROAD	270	485.00	1,591.2

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> GAYLOR, AHTD FS 2 <b>Ref Mon # 2</b> OKMU <b>Ref Mon # 3</b> OZARPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.         </td> </tr> </table>	Comments	ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.
Comments			
ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170014A	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 540	<b>Job Number:</b> 040445
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	140,875.7570	
<b>Easting (M)</b>	199,133.7810	
<b>Elevation (M)*</b>	255.213	
<b>Northing (SFT)</b>	462,189.8794	
<b>Easting (SFT)</b>	653,324.7465	
<b>Elevation (SFT)*</b>	837.310	

  

<b>Convergence Angle</b>	-1	17	23.2262306
<b>Scale Factor</b>	0.999935936		
<b>Elevation Adjust. Factor</b>	0.9999599504		
<b>Combined Adjust. Factor</b>	0.9998958890		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	115	1.15	3.8
MK # 2	GUARD RAIL POST	200	7.80	25.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> GAYLOR, AHTD FS 2 <b>Ref Mon # 2</b> OKMU <b>Ref Mon # 3</b> OZARPORT	ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5110 in Job 040445 in July 2005.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170015	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 282	<b>Job Number:</b> 040445,040256
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	143,600.8610	
<b>Easting (M)</b>	202,149.4190	
<b>Elevation (M)*</b>	208.949	
<b>Northing (SFT)</b>	471,130.4915	
<b>Easting (SFT)</b>	663,218.5522	
<b>Elevation (SFT)*</b>	685.527	

  

<b>Convergence Angle</b>	-1	16	14.9366919
<b>Scale Factor</b>	0.999936021		
<b>Elevation Adjust. Factor</b>	0.9999672102		
<b>Combined Adjust. Factor</b>	0.9999032333		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTAINBURG, GO SOUTH ON HIGHWAY 282 1.4 MILES TO THE STATION ON THE RIGHT, NORTHWEST 19.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP	240	8.65	28.4
MK # 2	C/L ASPH DRIVEWAY	270	11.70	38.4
MK # 3	GATE POST	282	9.35	30.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR, AHTD FS 2</p> <p><b>Ref Mon # 2</b>    OKMU</p> <p><b>Ref Mon # 3</b>    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170015A	<b>Date Monumented</b> 12/1/2004	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 282	<b>Job Number:</b> 040445,040256
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	144,194.9010	
<b>Easting (M)</b>	202,385.7370	
<b>Elevation (M)*</b>	213.376	
<b>Northing (SFT)</b>	473,079.4377	
<b>Easting (SFT)</b>	663,993.8721	
<b>Elevation (SFT)*</b>	700.051	

  

<b>Convergence Angle</b>	-1	16	9.7783258
<b>Scale Factor</b>	0.999936064		
<b>Elevation Adjust. Factor</b>	0.9999665155		
<b>Combined Adjust. Factor</b>	0.9999025816		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTAINBURG, GO SOUTH ON HIGHWAY I-540 1.0 MILES TO THE STATION ON THE RIGHT, NORTHWEST 8.10 METERS OF THE CENTERLINE OF THE SOUTHBOUND LANE AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUARD RAIL POST	115	1.15	3.8
<b>MK # 2</b>	SIDEWALK	45	14.90	48.9
<b>MK # 3</b>	GUARD RAIL POST	200	7.80	25.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR, AHTD FS 2</p> <p><b>Ref Mon # 2</b>    OKMU</p> <p><b>Ref Mon # 3</b>    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170016	<b>Date Monumented</b> 2/7/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> NA	<b>Job Number:</b> 56,040485,040721,040373,04
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	128,307.9549 0.0010
<b>Easting (M)</b>	196,794.9284 0.0010
<b>Elevation (M)*</b>	126.935
<b>Northing (SFT)</b>	420,957.0154
<b>Easting (SFT)</b>	645,651.3609
<b>Elevation (SFT)*</b>	416.454

  

<b>Convergence Angle</b>	-1 18 10.6671044
<b>Scale Factor</b>	0.999937946
<b>Elevation Adjust. Factor</b>	0.9999800801
<b>Combined Adjust. Factor</b>	0.9999180273

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35 28 8.5621152		
<b>Longitude</b>	94 14 20.9631336		
<b>Ellipsoid Height:</b>	97.422		
<b>Grid Northing (Meters)</b>	128,307.9641		
<b>Grid Easting (Meters)</b>	196,794.9150		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	27	7.28	23.9
MK # 2	LIGHT POLE W/TRANSFORMER	251	21.46	70.4
MK # 3	GUY	263	20.97	68.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY, (ARFY, 170011) <b>Ref Mon # 2</b> ARHR, (DQUA, 170012) <b>Ref Mon # 3</b> OKHV, (SAL1, 170013)	<b>Comments</b>  NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.516m AND PREVIOUS ELEV. WAS 126.937m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC
---	---

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.90 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE RIGHT, 2.3' NORTHEAST OLD DIRT ROAD AND SOUTHWEST 3.2' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016 2006" ON TOP OF A 4' REBAR DRIVEN BELOW GROUND LEVEL.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170016A	<b>Date Monumented</b> 2/7/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> NA	<b>Job Number:</b> 56,040485,040721,040373,04
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	128,421.8448    0.0010
<b>Easting (M)</b>	197,177.4163    0.0010
<b>Elevation (M)*</b>	126.280

  

<b>Northing (SFT)</b>	421,330.6691	
<b>Easting (SFT)</b>	646,906.2400	
<b>Elevation (SFT)*</b>	414.304	

  

<b>Convergence Angle</b>	-1	18	1.9006772
<b>Scale Factor</b>	0.999937908		
<b>Elevation Adjust. Factor</b>	0.9999801829		
<b>Combined Adjust. Factor</b>	0.9999180921		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	28	12.5387112
<b>Longitude</b>	94	14	5.8977276
<b>Ellipsoid Height:</b>	96.770		
<b>Grid Northing (Meters)</b>	128,421.8521		
<b>Grid Easting (Meters)</b>	197,177.4080		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.60 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE LEFT, 17' NORTHEAST OF THE CENTERLINE OF THE ROAD AND WEST 1.6' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016A 2006" ON TOP OF A 4' REBAR DRIVEN BELOW GROUND LEVEL.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	UNDERGROUND CABLE MARKER	74	2.83	9.3
<b>MK # 2</b>	POWER POLE	167	3.81	12.5
<b>MK # 3</b>	UNDERGROUND CABLE MARKER	198	6.71	22.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, (ARFY, 170011)	NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.507 AND PREVIOUS ELEV. WAS 126.277m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC
<b>Ref Mon # 2</b> ARHR, (DQUA, 170012)	
<b>Ref Mon # 3</b> OKHV, (SAL1, 170013)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170017	<b>Date Monumented</b> 2/7/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 162	<b>Job Number:</b> 040456
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	126,096.7490		
<b>Easting (M)</b>	198,683.0050		
<b>Elevation (M)*</b>	124.070		
<b>Northing (SFT)</b>	413,702.4173		
<b>Easting (SFT)</b>	651,845.8256		
<b>Elevation (SFT)*</b>	407.053		

  

<b>Convergence Angle</b>	-1	17	25.9491708
<b>Scale Factor</b>	0.999938686		
<b>Elevation Adjust. Factor</b>	0.9999805298		
<b>Combined Adjust. Factor</b>	0.9999192169		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	215	4.99	16.4
MK # 2	TELEPHONE RISER		9.87	32.4
MK # 3				

  

<b>AZ Mark Station</b>	170017A
<b>Geodetic Azimuth</b>	4 48 25
<b>Grid Azimuth</b>	6 05 51

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY, 170011 <b>Ref Mon # 2</b> DQUA, 170012 <b>Ref Mon # 3</b> SAL1, 170013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170017A	<b>Date Monumented</b> 2/7/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 162	<b>Job Number:</b> 040456,040373,040748
---------------------------	------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	126,733.1894    0.0010
<b>Easting (M)</b>	198,751.0008    0.0010
<b>Elevation (M)*</b>	121.725

  

<b>Northing (SFT)</b>	415,790.4722	
<b>Easting (SFT)</b>	652,068.9085	
<b>Elevation (SFT)*</b>	399.360	

  

<b>Convergence Angle</b>	-1	17	24.7111934
<b>Scale Factor</b>	0.999938456		
<b>Elevation Adjust. Factor</b>	0.9999808977		
<b>Combined Adjust. Factor</b>	0.9999193549		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	27	18.9110952
<b>Longitude</b>	94	13	1.9872084
<b>Ellipsoid Height:</b>	92.181		
<b>Grid Northing (Meters)</b>	126,733.1901		
<b>Grid Easting (Meters)</b>	198,750.9920		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64B AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 FOR 2.0 MILES TO THE STATION MARK ON THE LEFT, THE STATION MARK IS 27.7' EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.5' WEST OF A WITNESS POST, AND NORTH OF A DIRT TURN IN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170017A 2006" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	8	24.78	81.3
<b>MK # 2</b>	CENTER OF HEADWALL	338	6.25	20.5
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	170017
<b>Geodetic Azimuth</b>	184 48 26
<b>Grid Azimuth</b>	186 05 51

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY, (ARFY, 170011)	NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.549m AND PREVIOUS ELEV. WAS 121.730m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC
<b>Ref Mon # 2</b> ARHR, (DQUA, 170012)	
<b>Ref Mon # 3</b> OKHV, (SALI, 170013)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170018	<b>Date Monumented</b> 2/7/2006	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 40456,4594,BB0407
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	126,008.6511	
<b>Easting (M)</b>	189,346.7631	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	413,413.3828	
<b>Easting (SFT)</b>	621,215.1719	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	1.2829816
<b>Scale Factor</b>	0.999938799		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 64 AND I 540 IN VAN BUREN IN THE SOUTHWEST QUADRANT OF THE INTERSECTION. THE STATION IS 11.60 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 64 EAST BOUND LANES, 2.90 METERS SOUTHEAST OF A METAL GUARD RAIL, AND 1.5' NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170018 2006" SET ON TOP OF AN IRON ROD 4' LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF OVERPASS	351	2.55	8.4	
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFY, 170011 Ref Mon # 2    DQUA, 170012 Ref Mon # 3    SAL1, 170013	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170019	<b>Date Monumented</b> 4/17/2006	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> 540	<b>Job Number:</b> R40013,chester
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 150,633.5560		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 204,148.6290		<b>Latitude</b> 35 40 18.1541856
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 9 48.8004480
<b>Northing (SFT)</b> 494,203.5916		<b>Ellipsoid Height (M):</b> 244.252
<b>Easting (SFT)</b> 669,777.6270		<b>Geoid Height (M):</b> -28.591
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 15 32.2961892	<b>Location Description</b>  The station is located in the southeastern quadrant of the I-540 and highway 282 exit (exit 34) on top of a hill east of I-540 and south of highway 282. The station is a 2 1/2 inch cap stamped "170019 2006" set on top of a 4 foot long by 5/8 inch rebar a
<b>Scale Factor</b> 0.999937096	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					170019A	
MK # 2					207 41 41	
MK # 3					208 57 13	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Sal1	
Ref Mon # 2 ARFY	
Ref Mon # 3 170015	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170019A	<b>Date Monumented</b> 4/17/2006	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> 540	<b>Job Number:</b> R40013
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,966.2089	
<b>Easting (M)</b>	203,779.4160	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	492,014.1370	
<b>Easting (SFT)</b>	668,566.3007	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	15	40.4976787
<b>Scale Factor</b>	0.999936940		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW bridge end	153	1.21	4.0
<b>MK # 2</b>	NE bridge end	291	19.32	63.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Sal1	
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> 170015	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    39    56.2417128
<b>Longitude</b>	94    10    2.8947972
<b>Ellipsoid Height (M):</b>	222.162
<b>Geoid Height (M):</b>	-28.618

Location Description
<p>To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 go south on 540 for 0.30 miles to the station in the median at the north end of the bridge. 22.90 feet west of the center of the highway and 1.5 feet southeast of a witness post.The</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170020	<b>Date Monumented</b> 4/17/2006	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> 540	<b>Job Number:</b> R40013,chester
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	154,353.5029	
<b>Easting (M)</b>	201,233.2780	
<b>Elevation (M)*</b>	369.773	
<b>Northing (SFT)</b>	506,408.1174	
<b>Easting (SFT)</b>	660,212.8462	
<b>Elevation (SFT)*</b>	1,213.164	

  

<b>Convergence Angle</b>	-1	16	41.6597968
<b>Scale Factor</b>	0.999938135		
<b>Elevation Adjust. Factor</b>	0.9999419739		
<b>Combined Adjust. Factor</b>	0.9998801125		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Sal1 <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> 170015	

  

<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    42    16.7355684
<b>Longitude</b>	94    11    48.0025644
<b>Ellipsoid Height (M):</b>	341.283
<b>Geoid Height (M):</b>	-28.489

  

Location Description
To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 southeast of Chester go north on 540 for 3.0 miles to the station on the left. 25.10 feet west of the center of the northbound lane and 1.50 feet east of a witness post. The station is

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170020A	<b>Date Monumented</b> 4/17/2006	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> 540	<b>Job Number:</b> R40013
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	155,429.9059	
<b>Easting (M)</b>	200,990.8750	
<b>Elevation (M)*</b>	337.395	
<b>Northing (SFT)</b>	509,939.6163	
<b>Easting (SFT)</b>	659,417.5624	
<b>Elevation (SFT)*</b>	1,106.937	

  

<b>Convergence Angle</b>	-1	16	47.8264183
<b>Scale Factor</b>	0.999938502		
<b>Elevation Adjust. Factor</b>	0.9999470545		
<b>Combined Adjust. Factor</b>	0.9998855598		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW bridge end of I 540 northbound lane	122	1.65	5.4
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	170020
<b>Geodetic Azimuth</b>	166 01 44
<b>Grid Azimuth</b>	167 18 32

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Sal1	
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> 170015	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170021	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	147,088.3339	
<b>Easting (M)</b>	183,009.2685	
<b>Elevation (M)*</b>	204.077	
<b>Northing (SFT)</b>	482,572.3088	
<b>Easting (SFT)</b>	600,422.9084	
<b>Elevation (SFT)*</b>	669.544	

  

<b>Convergence Angle</b>	-1	23	39.3130757
<b>Scale Factor</b>	0.999936332		
<b>Elevation Adjust. Factor</b>	0.9999679746		
<b>Combined Adjust. Factor</b>	0.9999043087		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	153	12.65	41.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2 OKMU	
Ref Mon # 3 GAYLOR	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 3.60 MILES TO A GRAVEL ROAD, (INDEPENDENCE RD.) TURN LEFT (WEST) AND GO 0.5 MILES THE MARK ON THE RIGHT. NORTHWEST 23.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHEAST 2.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170021 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

  

<b>AZ Mark Station</b>	170021A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170021A	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	147,600.2854	
<b>Easting (M)</b>	183,619.3263	
<b>Elevation (M)*</b>	203.261	
<b>Northing (SFT)</b>	484,251.9363	
<b>Easting (SFT)</b>	602,424.4064	
<b>Elevation (SFT)*</b>	666.864	

  

<b>Convergence Angle</b>	-1	23	25.4944152
<b>Scale Factor</b>	0.999936409		
<b>Elevation Adjust. Factor</b>	0.9999681028		
<b>Combined Adjust. Factor</b>	0.9999045138		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 3.60 MILES THE MARK ON THE LEFT. NORTHWEST 23.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHEAST 2.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170021 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARFY</p> <p><b>Ref Mon # 2</b>    OKMU</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED &amp; LEVELS IS DUE TO ROUNDING ERROR). *****REPORTED DESTROYED IN MAY 2016 BY R.E. # 42*****</p>
--	--

  

<b>AZ Mark Station</b>	170021
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170022	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,704.3526	
<b>Easting (M)</b>	182,590.8747	
<b>Elevation (M)*</b>	212.997	
<b>Northing (SFT)</b>	491,155.0302	
<b>Easting (SFT)</b>	599,050.2281	
<b>Elevation (SFT)*</b>	698.809	

  

<b>Convergence Angle</b>	-1	23	50.4628093
<b>Scale Factor</b>	0.999936780		
<b>Elevation Adjust. Factor</b>	0.9999665749		
<b>Combined Adjust. Factor</b>	0.9999033570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.1 MILES TO THE MARK ON THE RIGHT. NORTHEAST 27.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170022 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY</p> <p><b>Ref Mon # 2</b>    OKMU</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR.  **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED &amp; LEVELS IS DUE TO ROUNDING ERROR).</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170022A	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	150,158.2169		
<b>Easting (M)</b>	182,133.2115		
<b>Elevation (M)*</b>	231.171		
<b>Northing (SFT)</b>	492,644.0833		
<b>Easting (SFT)</b>	597,548.7114		
<b>Elevation (SFT)*</b>	758.433		

  

<b>Convergence Angle</b>	-1	24	1.3047317
<b>Scale Factor</b>	0.999936872		
<b>Elevation Adjust. Factor</b>	0.9999637231		
<b>Combined Adjust. Factor</b>	0.9999005974		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF GATE POST	93	10.06	33.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2: OKMU	
Ref Mon # 3: GAYLOR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 39 46.1576304
<b>Longitude</b>	94 24 23.5371816
<b>Ellipsoid Height (M):</b>	202.315
<b>Geoid Height (M):</b>	-28.855

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.55 MILES TO THE MARK ON THE RIGHT. NORTHEAST 31.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHWEST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170023	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	151,926.6176	
<b>Easting (M)</b>	179,138.7671	
<b>Elevation (M)*</b>	237.525	
<b>Northing (SFT)</b>	498,445.9112	
<b>Easting (SFT)</b>	587,724.4384	
<b>Elevation (SFT)*</b>	779.281	

  

<b>Convergence Angle</b>	-1	25	11.5800333
<b>Scale Factor</b>	0.999937272		
<b>Elevation Adjust. Factor</b>	0.9999627259		
<b>Combined Adjust. Factor</b>	0.9999000003		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	263	15.24	50.0
MK # 2	NORTH WEST CORNER OF CONCRETE BUIL	158	27.31	89.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2 OKMU	
Ref Mon # 3 GAYLOR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 40 41.1306456
<b>Longitude</b>	94 26 24.3060540
<b>Ellipsoid Height (M):</b>	208.713
<b>Geoid Height (M):</b>	-28.812

  

Location Description
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 7.70 MILES THE MARK ON THE LEFT. SOUTHWEST 23.6 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND NORTHEAST 22.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170023A	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040623
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	152,134.4342	
<b>Easting (M)</b>	178,832.7926	
<b>Elevation (M)*</b>	235.982	
<b>Northing (SFT)</b>	499,127.7229	
<b>Easting (SFT)</b>	586,720.5871	
<b>Elevation (SFT)*</b>	774.218	

  

<b>Convergence Angle</b>	-1	25	18.7778927
<b>Scale Factor</b>	0.999937324		
<b>Elevation Adjust. Factor</b>	0.9999629681		
<b>Combined Adjust. Factor</b>	0.9999002944		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF GATE	184	21.12	69.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	170023A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING VERTCOM AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
<b>Ref Mon # 2</b> OKMU	
<b>Ref Mon # 3</b> GAYLOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170024	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040622
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	153,928.9542	
<b>Easting (M)</b>	176,154.7266	
<b>Elevation (M)*</b>	260.258	
<b>Northing (SFT)</b>	505,015.2439	
<b>Easting (SFT)</b>	577,934.2989	
<b>Elevation (SFT)*</b>	853.864	

  

<b>Convergence Angle</b>	-1	26	21.7773273
<b>Scale Factor</b>	0.999937812		
<b>Elevation Adjust. Factor</b>	0.9999591586		
<b>Combined Adjust. Factor</b>	0.9998969732		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.3 MILES THE MARK ON THE LEFT, 6.7 FEET SOUTHWEST OF EDGE OF PAVEMENT IN A PULL OFF AREA .21.8 FEET SOUTHWEST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    170024A</p> <p><b>Ref Mon # 2</b>    </p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" &amp; "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170024A	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040622
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	154,402.1061		
<b>Easting (M)</b>	175,914.7246		
<b>Elevation (M)*</b>	259.039		
<b>Northing (SFT)</b>	506,567.5764		
<b>Easting (SFT)</b>	577,146.8923		
<b>Elevation (SFT)*</b>	849.864		

  

<b>Convergence Angle</b>	-1	26	27.6061857
<b>Scale Factor</b>	0.999937957		
<b>Elevation Adjust. Factor</b>	0.9999593500		
<b>Combined Adjust. Factor</b>	0.9998973095		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF FENCE	22	7.01	23.0
MK # 2	HEAD WALL	312	14.23	46.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> 170024 <b>Ref Mon # 2</b> <b>Ref Mon # 3</b> 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" &amp; "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.         </td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.
Comments			
ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.			

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 41 58.8190560
<b>Longitude</b>	94 28 34.9578264
<b>Ellipsoid Height (M):</b>	230.289
<b>Geoid Height (M):</b>	-28.750

Location Description
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.6 MILES THE MARK ON THE RIGHT, SOUTHEAST OF THE CENTER LINE OF A DRIVE 20.3 FEET. 21.0 FEET NORTHEAST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170025	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040622
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	158,941.6518				
<b>Easting (M)</b>	176,300.8030				
<b>Elevation (M)*</b>	308.416				
<b>Northing (SFT)</b>	521,461.0693				
<b>Easting (SFT)</b>	578,413.5512				
<b>Elevation (SFT)*</b>	1,011.862				

  

<b>Convergence Angle</b>	-1	26	21.3114795
<b>Scale Factor</b>	0.999939649		
<b>Elevation Adjust. Factor</b>	0.9999516018		
<b>Combined Adjust. Factor</b>	0.9998912537		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 13.7 MILES THE MARK ON THE LEFT, EAST OF THE OZARK NATIONAL FORREST SIGN 21.4 FEET, WEST OF EDGE OF PAVEMENT 3.2 FEET, 17.3 FEET WEST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    170025A	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170025A	<b>Date Monumented</b> 3/7/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040622
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,355.6021	
<b>Easting (M)</b>	176,388.4752	
<b>Elevation (M)*</b>	316.441	
<b>Northing (SFT)</b>	522,819.1712	
<b>Easting (SFT)</b>	578,701.1891	
<b>Elevation (SFT)*</b>	1,038.191	

  

<b>Convergence Angle</b>	-1	26	19.5223862
<b>Scale Factor</b>	0.999939829		
<b>Elevation Adjust. Factor</b>	0.9999503425		
<b>Combined Adjust. Factor</b>	0.9998901745		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 14.0 MILES THE MARK ON THE RIGHT, 17.3 FEET EAST FROM THE CENTERLINE OF STATE HIGHWAY 59 AND WEST OF A WITNESS POST 22.7 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    170025	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170026	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 8th STREET	<b>Job Number:</b> BB0407, 03D04, 040721
--------------------------	--------------------------------------	------------------------------	---------------------------	----------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	124,338.2836	0.0030	
<b>Easting (M)</b>	188,536.2036	0.0030	
<b>Elevation (M)*</b>	131.270		
<b>Northing (SFT)</b>	407,933.1854		
<b>Easting (SFT)</b>	618,555.8613		
<b>Elevation (SFT)*</b>	430.674		

  

<b>Convergence Angle</b>	-1	21	19.0698019
<b>Scale Factor</b>	0.999939468		
<b>Elevation Adjust. Factor</b>	0.9999793999		
<b>Combined Adjust. Factor</b>	0.9999188692		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	25	53.5669968
<b>Longitude</b>	94	19	44.7349440
<b>Ellipsoid Height:</b>	101.521		
<b>Grid Northing (Meters)</b>	124,338.2865		
<b>Grid Easting (Meters)</b>	188,536.1971		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 64, NORTHEAST OF FORT SMITH, GO WEST ON HIGHWAY 64 0.6 MILES TO SOUTH 28th STREET AND TURN LEFT (SOUTH) AND GO 0.7 MILES TO THE MARK ON THE RIGHT AT THE SOUTHWEST CORNER OF THE 28th STREET BRIDGE OVER I 540. THE MARK IS 7.2 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BRIDGE, 18 FEET WEST OF THE CENTERLINE OF THE STREET AND WEST 0.8 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 CAP STAMPED "170026 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFY (ARFY) Ref Mon # 2    ARHR (OKHV) Ref Mon # 3    ARLR, SAL5 (ARRS)	<b>Comments</b> ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170026A	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 8th STREET	<b>Job Number:</b> BB0407, 03D04, 040721
---------------------------	--------------------------------------	------------------------------	---------------------------	----------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	123,832.0734	0.0030	
<b>Easting (M)</b>	188,503.5027	0.0030	
<b>Elevation (M)*</b>	123.986		
<b>Northing (SFT)</b>	406,272.3941		
<b>Easting (SFT)</b>	618,448.5751		
<b>Elevation (SFT)*</b>	406.778		

  

<b>Convergence Angle</b>	-1	21	19.5477704
<b>Scale Factor</b>	0.999939682		
<b>Elevation Adjust. Factor</b>	0.9999805429		
<b>Combined Adjust. Factor</b>	0.9999202261		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	25	37.1201088
<b>Longitude</b>	94	19	45.5562660
<b>Ellipsoid Height:</b>	94.220		
<b>Grid Northing (Meters)</b>	123,832.0720		
<b>Grid Easting (Meters)</b>	188,503.4980		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC CABLE MARKER	351	19.35	63.5
MK # 2	COMBINATION POLE	189	30.08	98.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY (ARFY)	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.
Ref Mon # 2 ARHR (OKHV)	
Ref Mon # 3 ARLR, SAL5 (ARRS)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170027	<b>Date Monumented</b> 11/4/2015	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 03D04, 040721, 040872
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	124,996.6663 0.0030
<b>Easting (M)</b>	186,421.6610 0.0030
<b>Elevation (M)*</b>	133.882
<b>Northing (SFT)</b>	410,093.2294
<b>Easting (SFT)</b>	611,618.3995
<b>Elevation (SFT)*</b>	439.245

  

<b>Convergence Angle</b>	-1	22	8.2027048
<b>Scale Factor</b>	0.999939219		
<b>Elevation Adjust. Factor</b>	0.9999789900		
<b>Combined Adjust. Factor</b>	0.9999182103		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD SIGNAL POLE	179	26.90	88.3
<b>MK # 2</b>	MANHOLE	338	33.60	110.2
<b>MK # 3</b>	SOUTHWEST CORNER OF RR CONTROL BO	51	28.00	91.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM R 28. THIS MARK REPLACES GPS # 170006 THAT WAS FOUND DESTROYED BY S5112 IN NOV. 2015. *****UPDATE D ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARLR, SAL5	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 12A	<b>Latitude</b> 35 26 13.2939384
<b>Longitude</b> 94 21 9.1701144	<b>Ellipsoid Height (M):</b> 104.045 0.0080
<b>Geoid Height (M):</b> -29.837 0.0080	

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 (MAIN STREET) AND FAYETTEVILLE ROAD (HIGHWAY 59), IN VAN BUREN, GO NORTH FROM MAIN STREET ON FAYETTEVILLE ROAD 100 FEET TO THE MARK ON THE RIGHT, 36.6 FEET EAST OF THE CENTERLINE OF FAYETTEVILLE ROAD, 9.4 FEET NORTH OF THE NORTH RR RAIL, AND 8.5 EAST OF THE EAST EDGE OF THE SIDEWALK. THE MARK IS A STANDARD 2 1/2 IN CAP STAMPED "170027 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170028	<b>Date Monumented</b> 2/13/2017	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> US-71	<b>Job Number:</b> 040684
--------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	135,247.1553	0.0020
<b>Easting (M)</b>	198,620.4190	0.0020
<b>Elevation (M)*</b>	243.636	
<b>Northing (SFT)</b>	443,723.3753	
<b>Easting (SFT)</b>	651,640.4913	
<b>Elevation (SFT)*</b>	799.330	

  

<b>Convergence Angle</b>	-1	17	32.1550328
<b>Scale Factor</b>	0.999936350		
<b>Elevation Adjust. Factor</b>	0.9999617670		
<b>Combined Adjust. Factor</b>	0.9998981194		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	24	3.96	13.0
MK # 2	GAS METER	170	6.71	22.0
MK # 3	NW COR OF BU	153	20.73	68.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS &amp; ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'			

  

Location Description	
FROM JCT OF US-71 & SR-282 OFF RUDY EXIT GO S ON US-71 0.4MI TO STA ON L. 48' E OF CTR OF US-71. 42' S OF CTR OF LOVE RD. STA IS A 2 1/2" ALUM CAP STAMPED "170028 2017" SET BELOW SURFACE.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 31 55.0167312
<b>Longitude</b>	94 13 14.7791784
<b>Ellipsoid Height (M):</b>	214.343 0.0030
<b>Geoid Height (M):</b>	-29.278 0.0030

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170028-1	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> N CLUB	<b>Job Number:</b> 040373,040748
----------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	116,577.1323	0.0010			
<b>Easting (M)</b>	192,790.2802	0.0010			
<b>Elevation (M)*</b>	121.465				
<b>Northing (SFT)</b>	382,470.1416				
<b>Easting (SFT)</b>	632,512.7776				
<b>Elevation (SFT)*</b>	398.508				

  

<b>Convergence Angle</b>	-1	19	36.8053548
<b>Scale Factor</b>	0.999943383		
<b>Elevation Adjust. Factor</b>	0.9999809385		
<b>Combined Adjust. Factor</b>	0.9999243226		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 1.3 MILES TO THE MARK ON THE RIGHT, SOUTH 24 FEET OF THE CENTERLINE OF THE ROAD, 4.5 FEET NORTH OF A 3 STRAN BARBWIRE FENCE AND NORTH 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170028" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    ARHR</p> <p>Ref Mon # 3    OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>STAMPED 170028 (already a 170028 on Job # 040684 )</p> <p>*****3/7/2017</p> <p>GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR &amp; ARFS AND ON 1ST ORDER USC &amp; GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.</p> <p>*****PUBLISH</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170028A	<b>Date Monumented</b> 2/13/2017	<b>Monumented By</b> AHTD	<b>County</b> Crawford	<b>Route</b> US-71	<b>Job Number:</b> 040684
---------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 135,737.6788	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 198,612.5646	<b>0.0020</b>	<b>Latitude</b> 35 32 10.9239324
<b>Elevation (M)*</b> 255.423		<b>Longitude</b> 94 13 15.5300772
<b>Northing (SFT)</b> 445,332.7012		<b>Ellipsoid Height (M):</b> 226.150 0.0030
<b>Easting (SFT)</b> 651,614.7224		<b>Geoid Height (M):</b> -29.257 0.0030
<b>Elevation (SFT)*</b> 837.999		

  

<b>Convergence Angle</b> -1 17 32.5919801	<b>Scale Factor</b> 0.999936283	<b>Location Description</b> FROM JCT OF US-71 & SR-282 OFF RUDY EXIT GO S ON US-71 0.1MI TO STA ON R. 55' W OF CTR OF US-71. 24' S OF DW. IN FRONT OF TELEPHONE BU. STA IS A 2 1/2" ALUM CAP STAMPED "170028A 2017" SET BELOW SURFACE.
<b>Elevation Adjust. Factor</b> 0.9999599175	<b>Combined Adjust. Factor</b> 0.9998962030	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	CP		197	10.67	35.0
<b>MK # 2</b>	SE COR OF TELEPHONE BU		313	20.12	66.0
<b>MK # 3</b>	CP		4	24.99	82.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170029	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> STVILLE	<b>Job Number:</b> 040373,040748
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	118,082.1466	0.0010	
<b>Easting (M)</b>	194,677.5219	0.0010	
<b>Elevation (M)*</b>	121.183		
<b>Northing (SFT)</b>	387,407.8426		
<b>Easting (SFT)</b>	638,704.5031		
<b>Elevation (SFT)*</b>	397.580		

  

<b>Convergence Angle</b>	-1	18	54.1102879
<b>Scale Factor</b>	0.999942475		
<b>Elevation Adjust. Factor</b>	0.9999809828		
<b>Combined Adjust. Factor</b>	0.9999234589		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 2.5 MILES TO WESTVILLE ROAD AND TURN LEFT (NORTH) AND GO 1 MILE TO THE MARK ON THE LEFT, WEST 13.5 FEET OF THE CENTERLINE OF THE ROAD AND WEST 1 FOOT OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170029" ON TOP OF A 4 FOOT REBAR DRIVEN 1 FOOT BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2: ARHR	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170029A	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> STVILLE	<b>Job Number:</b> 040373,040748
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 118,497.8380	<b>0.0010</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 194,691.0366	<b>0.0010</b>	<b>Latitude</b> 35 22 48.7521840
<b>Elevation (M)*</b> 120.880		<b>Longitude</b> 94 15 35.4628332
<b>Northing (SFT)</b> 388,771.6568		<b>Ellipsoid Height (M):</b> 90.921 0.0020
<b>Easting (SFT)</b> 638,748.8426		<b>Geoid Height (M):</b> -29.950 0.0020
<b>Elevation (SFT)*</b> 396.586		

  

<b>Convergence Angle</b> -1 18 54.0187288	<b>Scale Factor</b> 0.999942242	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999810304	<b>Combined Adjust. Factor</b> 0.9999232735	TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 2.5 MILES TO WESTVILLE ROAD AND TURN LEFT (NORTH) AND GO 1.25 MILE TO THE MARK ON THE LEFT, WEST 43 FEET OF THE CENTERLINE OF THE ROAD AND WEST 9.8 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170029A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY ANCHOR	120	22.10	72.5
MK # 2	GUY ANCHOR	92	2.89	9.5
MK # 3	GAS VLAVE	103	19.69	64.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170030	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> DRNHILI	<b>Job Number:</b> 040373,040748
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	120,040.3749	0.0010	
<b>Easting (M)</b>	197,194.8980	0.0010	
<b>Elevation (M)*</b>	118.095		
<b>Northing (SFT)</b>	393,832.4633		
<b>Easting (SFT)</b>	646,963.5945		
<b>Elevation (SFT)*</b>	387.449		

  

<b>Convergence Angle</b>	-1	17	57.1109144
<b>Scale Factor</b>	0.999941382		
<b>Elevation Adjust. Factor</b>	0.9999814674		
<b>Combined Adjust. Factor</b>	0.9999228505		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	171	0.90	3.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170031	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> ELM BLVD	<b>Job Number:</b> 040373,040748
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	122,789.1411 0.0010
<b>Easting (M)</b>	197,744.4467 0.0010
<b>Elevation (M)*</b>	132.569

  

<b>Northing (SFT)</b>	402,850.7071	
<b>Easting (SFT)</b>	648,766.5722	
<b>Elevation (SFT)*</b>	434.937	

  

<b>Convergence Angle</b>	-1	17	45.8752359
<b>Scale Factor</b>	0.999940047		
<b>Elevation Adjust. Factor</b>	0.9999791960		
<b>Combined Adjust. Factor</b>	0.9999192443		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 0.75 MILES TO EAST ELM BLVD AND TURN LEFT (EAST) AND GO 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 20.5 FEET OF THE CENTERLINE OF THE ROAD, AND SOUTH 20.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170031 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	55	2.13	7.0
MK # 2	COMBINATION POLE	165	5.91	19.4
MK # 3	GAS METER	329	17.03	55.9

  

<b>AZ Mark Station</b>	170031A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170031A	<b>Date Monumented</b> 2/23/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> ELM BLVD	<b>Job Number:</b> 040373,040748
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	122,765.9145    0.0010
<b>Easting (M)</b>	198,145.4081    0.0010
<b>Elevation (M)*</b>	131.937

  

<b>Northing (SFT)</b>	402,774.5045	
<b>Easting (SFT)</b>	650,082.0597	
<b>Elevation (SFT)*</b>	432.865	

  

<b>Convergence Angle</b>	-1	17	36.6164257
<b>Scale Factor</b>	0.999940053		
<b>Elevation Adjust. Factor</b>	0.9999792951		
<b>Combined Adjust. Factor</b>	0.9999193494		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 0.75 MILES TO EAST ELM BLVD AND TURN LEFT (EAST) AND GO 0.50 MILES TO THE MARK ON THE RIGHT, SOUTH 22 FEET OF THE CENTERLINE OF EAST ELM BLVD, 17 FEET WEST OF THE CENTERLINE OF ALMA DR AND WEST 6.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170031A 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	285	2.16	7.1
<b>MK # 2</b>	COMBINATION POLE WITH LIGHT	34	19.11	62.7
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	170031
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170032	<b>Date Monumented</b> 3/2/2017	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> 162	<b>Job Number:</b> 040373,040748
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	126,146.3289	0.0010	
<b>Easting (M)</b>	198,684.7671	0.0010	
<b>Elevation (M)*</b>	123.328		
<b>Northing (SFT)</b>	413,865.0807		
<b>Easting (SFT)</b>	651,851.6067		
<b>Elevation (SFT)*</b>	404.617		

  

<b>Convergence Angle</b>	-1	17	25.9342869
<b>Scale Factor</b>	0.999938668		
<b>Elevation Adjust. Factor</b>	0.9999806463		
<b>Combined Adjust. Factor</b>	0.9999193154		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	235	1.22	4.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST ORDER NGS BM L 28 MONUMENTED BY USC & GS
Ref Mon # 2: ARHR	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170033	<b>Date Monumented</b> 2/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> I-40	<b>Job Number:</b> 040714, 040872
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	127,851.9023	0.0040			
<b>Easting (M)</b>	185,993.3323	0.0040			
<b>Elevation (M)*</b>	158.190				
<b>Northing (SFT)</b>	419,460.7828				
<b>Easting (SFT)</b>	610,213.1244				
<b>Elevation (SFT)*</b>	518.994				

  

<b>Convergence Angle</b>	-1	22	19.6598536
<b>Scale Factor</b>	0.999938175		
<b>Elevation Adjust. Factor</b>	0.9999751755		
<b>Combined Adjust. Factor</b>	0.9999133520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	83	13.31	43.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST ORDER BM Q 28 IN STATIC NETWORK ADJ. *****UPDATE D ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM 1ST ORDER BM J 11 WAS 518.9919
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170034	<b>Date Monumented</b> 11/11/2018	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> SR-220	<b>Job Number:</b> 040779
--------------------------	--------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	149,086.8943	0.0020			
<b>Easting (M)</b>	187,290.1277	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	489,129.2524				
<b>Easting (SFT)</b>	614,467.6940				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	22	1.4313059
<b>Scale Factor</b>	0.999936680		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" CMP	243	9.88	32.4
<b>MK # 2</b>	FENCE CORNER	283	21.58	70.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> OKHV, ARFS	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 39 15.4459152
<b>Longitude</b>	94 20 57.5333916
<b>Ellipsoid Height (M):</b>	190.249 0.0050
<b>Geoid Height (M):</b>	-28.906 0.0050

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-59 AND SR-220 N OF VAN BUREN, GO E ON SR-220 5.15 MILES TO THE STATION ON RIGHT. 30.2' SE OF THE C/L OF SR-220. THE MARK IS A STANDARD 2½" CAP STAMPED "170034 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170034A	<b>Date Monumented</b> 11/11/2018	<b>Monumented By</b> AHTD	<b>County</b> CRAWFORD	<b>Route</b> SR-220	<b>Job Number:</b> 040779
---------------------------	--------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	149,460.6869	0.0020			
<b>Easting (M)</b>	187,563.2285	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	490,355.6036				
<b>Easting (SFT)</b>	615,363.6922				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	21	55.3210648
<b>Scale Factor</b>	0.999936755		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" BLACK WALNUT	210	21.49	70.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV, ARFS	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 39 27.7827012
<b>Longitude</b>	94 20 47.0328756
<b>Ellipsoid Height (M):</b>	192.474 0.0050
<b>Geoid Height (M):</b>	-28.890 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-59 AND SR-220 N OF VAN BUREN, GO E ON SR-220 5.35 MILES TO SHAMROCK LANE, TAKE SHAMROCK LANE 0.09 MILES THE STATION ON LEFT. 14.0' NW OF THE C/L OF SHAMROCK LANE. THE MARK IS A STANDARD 2½" CAP STAMPED "170034A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170035	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	130,999.3793	0.0020			
<b>Easting (M)</b>	205,245.2266	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	429,787.1303				
<b>Easting (SFT)</b>	673,375.3809				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	14	57.0227856
<b>Scale Factor</b>	0.999937142		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	62	6.40	21.0
<b>MK # 2</b>	CENTER OF SIGN "ESTATES"	185	4.30	14.1
<b>MK # 3</b>	SS MANHOLE	295	18.90	62.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV	<b>Comments</b>  STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
---	--

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 6.1 MILES TO THE MARK ON THE RIGHT, NORTH 40' OF THE C/L OF THE HIGHWAY AND 35.6' EAST OF THE C/L OF HORIZON LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170035 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170035A	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	130,949.4194	0.0020			
<b>Easting (M)</b>	205,703.8851	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	429,623.2201				
<b>Easting (SFT)</b>	674,880.1630				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	14	46.4102981
<b>Scale Factor</b>	0.999937152		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ 3 GUYS & LIGHT	244	14.33	47.0
MK # 2	CENTER OF GATE	216	8.84	29.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170036	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	132,589.5907	0.0020			
<b>Easting (M)</b>	211,329.0943	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	435,004.3488				
<b>Easting (SFT)</b>	693,335.5369				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	12	37.3600959
<b>Scale Factor</b>	0.999936759		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER METER	56		
<b>MK # 2</b>	COMBINATION POLE	279	26.82	88.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	35    30    37.8074268
<b>Longitude</b>	94    4    48.1708632
<b>Ellipsoid Height (M):</b>	109.446    0.0050
<b>Geoid Height (M):</b>	-29.313    0.0050

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 1.85 MILES TO THE MARK ON THE RIGHT, NORTH 31.5' OF THE C/L OF THE HIGHWAY AND 15.4' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170036 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170036A	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	132,572.3118	0.0020	
<b>Easting (M)</b>	211,720.6737	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	434,947.6596		
<b>Easting (SFT)</b>	694,620.2436		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	12	28.3108280
<b>Scale Factor</b>	0.999936761		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	75	11.30	37.1
MK # 2	ALLIE MCBRIDE HEAD STONE	324	3.57	11.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARR V
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170037	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	131,625.7760	0.0020			
<b>Easting (M)</b>	214,976.0982	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	431,842.2334				
<b>Easting (SFT)</b>	705,300.7488				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	11	12.6957370
<b>Scale Factor</b>	0.999936948		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170037A	<b>Date Monumented</b> 11/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040788
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	131,627.2256	0.0020			
<b>Easting (M)</b>	214,459.7416	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	431,846.9893				
<b>Easting (SFT)</b>	703,606.6689				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	11	24.6170598
<b>Scale Factor</b>	0.999936950		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	127	18.59	61.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 178 FSGIS	<b>Date Monumented</b> 1/1/1994	<b>Monumented By</b> Y OF FORT SM	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 001747
-----------------------------	------------------------------------	--------------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,223.3852	
<b>Easting (M)</b>	185,248.0640	
<b>Elevation (M)*</b>	155.409	
<b>Northing (SFT)</b>	345,220.3896	
<b>Easting (SFT)</b>	607,768.0233	
<b>Elevation (SFT)*</b>	509.871	

  

<b>Convergence Angle</b>	-1	22	24.3376704
<b>Scale Factor</b>	0.999951993		
<b>Elevation Adjust. Factor</b>	0.9999756119		
<b>Combined Adjust. Factor</b>	0.9999276060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-540, US HIGHWAY 71B AND US HIGHWAY 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO SOUTHEAST ON US HIGHWAY 71 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.57 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF US HIGHWAY 71 AND 0.39 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 102mm BRASS CAP SET ON TOP OF A 203mm ROUND CONCRETE MONUMENT STAMPED "CITY OF FORT SMITH MON 178 RLS MONUMENTED 1994" Used as SU 101 in job 001747</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    FS 2</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THE MONUMENT IS PART OF THE FORT SMITH GEOGRAPHIC INFORMATION SYSTEM (FSGIS).</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180001	<b>Date Monumented</b> 4/16/1998	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> I40	<b>Job Number:</b> B0108,110635,110651,11065
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 94,313.4713	<b>0.0010</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 565,201.1318	<b>0.0020</b>	<b>Latitude</b> 35 10 11.0569368
<b>Elevation (M)*</b> 64.884	<b>0.0008</b>	<b>Longitude</b> 90 11 11.0736204
<b>Northing (SFT)</b> 309,426.7804		<b>Ellipsoid Height (M):</b> 37.575 0.0010
<b>Easting (SFT)</b> 1,854,330.7132		<b>Geoid Height (M):</b> -27.314 0.0010
<b>Elevation (SFT)*</b> 212.872		

  

<b>Convergence Angle</b>	1	3	19.1765673
<b>Scale Factor</b>	0.999961941		
<b>Elevation Adjust. Factor</b>	0.9999898178		
<b>Combined Adjust. Factor</b>	0.9999517591		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	35	10	11.0569440
<b>Longitude</b>	90	11	11.0736960
<b>Ellipsoid Height:</b>	37.636		
<b>Grid Northing (Meters)</b>	94,313.4715		
<b>Grid Easting (Meters)</b>	565,201.1299		

  

**Location Description**

THE STATION IS LOCATED IN THE FRONT LAWN OF THE RESIDENT ENGINEER OFFICE IN WEST MEMPHIS. THE STATION IS 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST, 8.15 METERS SOUTH OF THE SOUTH CORNER OF THE RESIDENT ENGINEER OFFICE BUILDING, 8.80 METERS WEST-NORTHWEST OF THE CENTER OF A PAVED ENTRANCE TO OFFICE AND 17.00 METERS NORTH-NORTHEAST OF THE CENTER OF THE FRONTAGE ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180001 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FLAG POLE	313	18.25	59.9
<b>MK # 2</b>	0.48 METER ASH TREE	81	22.70	74.5
<b>MK # 3</b>	EAST END OF A 0.70 METER CMP	282	45.60	149.6

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARJB (DAWSEY)</p> <p><b>Ref Mon # 2</b>    AROC (MEMPHIS 2 CORS)</p> <p><b>Ref Mon # 3</b>    ARWM, ARWY (ZME B)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488. *****Superceded elevation:213.078'. New elevation by digital level from 180001A by crew S5113 in June 2017 on job 110651. Position updated by crew S5113 in June 2017 during job 110650. *****S5103 RE-</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180001A	<b>Date Monumented</b> 4/16/1998	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> I-55	<b>Job Number:</b> 03,110488,BB0108,110651,11
---------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 94,360.1913	<b>0.0010</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 564,763.4889	<b>0.0010</b>	<b>Latitude</b> 35 10 12.8339688
<b>Elevation (M)*</b> 69.507		<b>Longitude</b> 90 11 28.3319268
<b>Northing (SFT)</b> 309,580.0610		<b>Ellipsoid Height (M):</b> 42.191 0.0010
<b>Easting (SFT)</b> 1,852,894.8798		<b>Geoid Height (M):</b> -27.313 0.0010
<b>Elevation (SFT)*</b> 228.041		

  

<b>Convergence Angle</b>	1	3	9.1339739
<b>Scale Factor</b>	0.999961880		
<b>Elevation Adjust. Factor</b>	0.9999890922		
<b>Combined Adjust. Factor</b>	0.9999509726		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	10	12.8350848
<b>Longitude</b>	90	11	28.3309908
<b>Ellipsoid Height:</b>	42.443		
<b>Grid Northing (Meters)</b>	94,360.2261		
<b>Grid Easting (Meters)</b>	564,763.5120		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF THE FRONTAGE ROAD AND STATE HIGHWAY 77 (MISSOURI STREET), LOCATED IN WEST MEMPHIS JUST SOUTH OF THE JUNCTION OF I-55 AND STATE HIGHWAY 77, GO WEST OF THE FRONTAGE ROAD FOR 0.56 KM (0.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.445 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF I-55 AND 1.00 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180001A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MILE MARKER 7	111	45.11	148.0	
MK # 2	PUNCH IN TOP OF A GUARD RAIL POST	322	17.53	57.5	
MK # 3	PUNCH IN TOP OF A GUARD RAIL POST	29	19.44	63.8	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB (DAWSEY)	Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.191m. SUPERCEDED ELEV. WAS 69.5570m
Ref Mon # 2: AROC (MEMPHIS 2 CORS)	
Ref Mon # 3: ARWM, ARWY (ZME B)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180002	<b>Date Monumented</b> 1/16/1998	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 77	<b>Job Number:</b> 110303,110509
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	98,031.4622	
<b>Easting (M)</b>	564,803.5060	
<b>Elevation (M)*</b>	66.847	
<b>Northing (SFT)</b>	321,624.8889	
<b>Easting (SFT)</b>	1,853,026.1693	
<b>Elevation (SFT)*</b>	219.314	

  

<b>Convergence Angle</b>	1	3	11.6058877
<b>Scale Factor</b>	0.999957902		
<b>Elevation Adjust. Factor</b>	0.9999895096		
<b>Combined Adjust. Factor</b>	0.9999474121		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 77, LOCATED IN MARION, GO SOUTH ON STATE HIGHWAY 77 FOR 1.13 KM (0.70 MI) TO A CURVE TO THE LEFT AND A RAILROAD CROSSING, GO LEFT AND SOUTHEAST ON STATE HIGHWAY 77 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 0.50 METERS SOUTHWEST OF A WITNESS POST, 14.400 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 77 AND 50.233 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180002 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	197	22.60	74.1
<b>MK # 2</b>	CENTER OF STORM DRAIN	289	19.08	62.6
<b>MK # 3</b>	WEST END OF HEADWALL=TBM 914	126	78.73	258.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    DAWSEY</p> <p><b>Ref Mon # 2</b>    MEMPHIS 2 CORS</p> <p><b>Ref Mon # 3</b>    ZME B</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran in June 1998 by crew S5101 from 1st Order NGS mark C 5 (Elev.=225.08)</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180003	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 38	<b>Job Number:</b> R10010
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 66,603.7391		<b>Latitude</b> 34 55 21.4369212
<b>Easting (M)</b> 548,563.6040		<b>Longitude</b> 90 22 26.5623600
<b>Elevation (M)*</b> 60.891		<b>Ellipsoid Height (M):</b> 33.859
<b>Northing (SFT)</b> 218,515.7674		<b>Geoid Height (M):</b> -26.988
<b>Easting (SFT)</b> 1,799,745.7575		
<b>Elevation (SFT)*</b> 199.773		

  

<b>Convergence Angle</b>	0	56	46.1102587
<b>Scale Factor</b>	1.000002127		
<b>Elevation Adjust. Factor</b>	0.9999904443		
<b>Combined Adjust. Factor</b>	0.9999925713		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	79	3.56	11.7
<b>MK # 2</b>	POWER POLE	5	22.69	74.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
<b>Ref Mon # 2</b> BRINKLEYPOR	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180003A	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 38	<b>Job Number:</b> R10010
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	66,588.2151	
<b>Easting (M)</b>	547,842.2120	
<b>Elevation (M)*</b>	61.512	
<b>Northing (SFT)</b>	218,464.8357	
<b>Easting (SFT)</b>	1,797,378.9905	
<b>Elevation (SFT)*</b>	201.811	

  

<b>Convergence Angle</b>	0	56	29.5680757
<b>Scale Factor</b>	1.000002134		
<b>Elevation Adjust. Factor</b>	0.9999903469		
<b>Combined Adjust. Factor</b>	0.9999924808		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 147, LOCATED ON THE WEST SIDE OF HORSESHOE LAKE, GO WEST ON STATE HIGHWAY 38 FOR 1.07 KM (0.66 MI) TO THE JUNCTION OF EARL BECK ROAD ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180003A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	216	9.50	31.2
<b>MK # 2</b>	COMBINATION POLE	235	22.90	75.1
<b>MK # 3</b>	COMBINATION POLE = TBM 931	308	26.20	86.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    DAWSEY</p> <p><b>Ref Mon # 2</b>    BRINKLEYPOR</p> <p><b>Ref Mon # 3</b>    H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT K 251</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180004	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 0334,Mobie LiDAR-CLS,1105
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	105,645.4014
<b>Easting (M)</b>	539,062.6275
<b>Elevation (M)*</b>	64.314
<b>Northing (SFT)</b>	346,604.9544
<b>Easting (SFT)</b>	1,768,574.6371
<b>Elevation (SFT)*</b>	211.004

  

<b>Convergence Angle</b>	0 53 22.2130899
<b>Scale Factor</b>	0.999950335
<b>Elevation Adjust. Factor</b>	0.9999899071
<b>Combined Adjust. Factor</b>	0.9999402426

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	16	33.1198968
<b>Longitude</b>	90	28	16.9620420
<b>Ellipsoid Height:</b>	37.069		
<b>Grid Northing (Meters)</b>	105,645.3751		
<b>Grid Easting (Meters)</b>	539,062.6235		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO WEST ON U.S. HIGHWAY 64 FOR 0.23 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.079 METERS WEST OF THE WEST PAVED ENTRANCE TO A FAMILY DOLLAR STORE, 15.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	59 16.742	16.74	54.9
MK # 2	WEST END CMP	93	19.16	62.8
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	BRINKLEYPORT	<p>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 211.105(64.345m)</p>
Ref Mon # 2	DAWSEY	
Ref Mon # 3	MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180004A	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,628.4073	
<b>Easting (M)</b>	539,720.2396	
<b>Elevation (M)*</b>	62.476	
<b>Northing (SFT)</b>	346,549.1996	
<b>Easting (SFT)</b>	1,770,732.1528	
<b>Elevation (SFT)*</b>	204.973	

  

<b>Convergence Angle</b>	0	53	37.3474546
<b>Scale Factor</b>	0.999950358		
<b>Elevation Adjust. Factor</b>	0.9999901956		
<b>Combined Adjust. Factor</b>	0.9999405541		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	246	23.90	78.4
MK # 2	NONE			
MK # 3	NONOE			

  

<b>AZ Mark Station</b>	180004
<b>Geodetic Azimuth</b>	272 22 18.14316
<b>Grid Azimuth</b>	271 28 40.85276

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180005	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,265.4351	
<b>Easting (M)</b>	545,786.2295	
<b>Elevation (M)*</b>	65.421	
<b>Northing (SFT)</b>	345,358.3483	
<b>Easting (SFT)</b>	1,790,633.6546	
<b>Elevation (SFT)*</b>	214.635	

  

<b>Convergence Angle</b>	0	55	56.8692518
<b>Scale Factor</b>	0.999950748		
<b>Elevation Adjust. Factor</b>	0.9999897334		
<b>Combined Adjust. Factor</b>	0.9999404819		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE = TBM 9208	292	15.18	49.8
<b>MK # 2</b>	WEST END OF CMP	159	10.28	33.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="DAWSEY"/>	
<b>Ref Mon # 3</b> <input type="text" value="MEM 2"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180005A	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,854.9934	
<b>Easting (M)</b>	546,281.0233	
<b>Elevation (M)*</b>	65.028	
<b>Northing (SFT)</b>	344,011.7575	
<b>Easting (SFT)</b>	1,792,256.9906	
<b>Elevation (SFT)*</b>	213.346	

  

<b>Convergence Angle</b>	0	56	8.1060280
<b>Scale Factor</b>	0.999951107		
<b>Elevation Adjust. Factor</b>	0.9999897951		
<b>Combined Adjust. Factor</b>	0.9999409026		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE GO EAST ON U.S. HIGHWAY 64 FOR 7.16 KM (4.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    DAWSEY</p> <p>Ref Mon # 3    MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180006	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,876.5042	
<b>Easting (M)</b>	548,998.6085	
<b>Elevation (M)*</b>	65.867	
<b>Northing (SFT)</b>	337,520.6642	
<b>Easting (SFT)</b>	1,801,172.9347	
<b>Elevation (SFT)*</b>	216.099	

  

<b>Convergence Angle</b>	0	57	9.9092855
<b>Scale Factor</b>	0.999952904		
<b>Elevation Adjust. Factor</b>	0.9999896634		
<b>Combined Adjust. Factor</b>	0.9999425679		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO WEST ON U.S. HIGHWAY 64 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 106.4 METERS WEST OF THE CENTER OF OIL WELL ROAD, 12.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    DAWSEY</p> <p>Ref Mon # 3    MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180006A	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,862.1536	
<b>Easting (M)</b>	548,528.8757	
<b>Elevation (M)*</b>	65.530	
<b>Northing (SFT)</b>	337,473.5823	
<b>Easting (SFT)</b>	1,799,631.8197	
<b>Elevation (SFT)*</b>	214.993	

  

<b>Convergence Angle</b>	0	56	59.0926666
<b>Scale Factor</b>	0.999952910		
<b>Elevation Adjust. Factor</b>	0.9999897163		
<b>Combined Adjust. Factor</b>	0.9999426268		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="DAWSEY"/>	
<b>Ref Mon # 3</b> <input type="text" value="MEM 2"/>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 14 57.8858964
<b>Longitude</b>	90 22 4.2519504
<b>Ellipsoid Height (M):</b>	38.305
<b>Geoid Height (M):</b>	-27.212

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO WEST ON U.S. HIGHWAY 64 FOR 4.25 KM (2.64 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180006A 1999" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180007	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	100,929.8072	
<b>Easting (M)</b>	552,851.2291	
<b>Elevation (M)*</b>	67.765	
<b>Northing (SFT)</b>	331,133.8758	
<b>Easting (SFT)</b>	1,813,812.7408	
<b>Elevation (SFT)*</b>	222.326	

  

<b>Convergence Angle</b>	0	58	37.8144325
<b>Scale Factor</b>	0.999954790		
<b>Elevation Adjust. Factor</b>	0.9999893656		
<b>Combined Adjust. Factor</b>	0.9999441561		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS EAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    DAWSEY</p> <p>Ref Mon # 3    MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180007A	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110334,Mobie LiDAR-CLS
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	100,686.5021	
<b>Easting (M)</b>	553,328.0892	
<b>Elevation (M)*</b>	68.100	
<b>Northing (SFT)</b>	330,335.6323	
<b>Easting (SFT)</b>	1,815,377.2393	
<b>Elevation (SFT)*</b>	223.425	

  

<b>Convergence Angle</b>	0	58	48.6912675
<b>Scale Factor</b>	0.999955033		
<b>Elevation Adjust. Factor</b>	0.9999893130		
<b>Combined Adjust. Factor</b>	0.9999443465		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="DAWSEY"/>	
<b>Ref Mon # 3</b> <input type="text" value="MEM 2"/>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 13 44.6732400
<b>Longitude</b>	90 18 55.9055592
<b>Ellipsoid Height (M):</b>	40.899
<b>Geoid Height (M):</b>	-27.200

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180008	<b>Date Monumented</b> 12/14/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 0337,Mobie LiDAR-CLS,1105
--------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 98,427.8421		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 555,635.1190		<b>Latitude</b> 35 12 30.1003488
<b>Elevation (M)*</b> 67.888		<b>Longitude</b> 90 17 26.2318596
<b>Northing (SFT)</b> 322,925.3453		<b>Ellipsoid Height (M):</b> 40.700
<b>Easting (SFT)</b> 1,822,946.2196		<b>Geoid Height (M):</b> -27.184
<b>Elevation (SFT)*</b> 222.728		

  

<b>Convergence Angle</b> 0 59 40.8723151	<b>Location Description</b>
<b>Scale Factor</b> 0.999957324	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 4 59 KM (2.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.60 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64, 11.00 METERS NORTHEAST OF THE NORTH RAIL AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 633.589 METERS.</p>
<b>Elevation Adjust. Factor</b> 0.9999893463	
<b>Combined Adjust. Factor</b> 0.9999466708	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				180008A	
MK # 2	NONE				117 01 39.61786	
MK # 3	NONE				116 01 58.68576	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MEM 2	<p>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. Superceded ELEV. 222.588(67.845)</p>
Ref Mon # 2 DAWSEY	
Ref Mon # 3 180007	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180008A	<b>Date Monumented</b> 12/14/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 64	<b>Job Number:</b> 110337,Mobie LiDAR-CLS
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	98,149.7821	
<b>Easting (M)</b>	556,204.3960	
<b>Elevation (M)*</b>	67.921	
<b>Northing (SFT)</b>	322,013.0768	
<b>Easting (SFT)</b>	1,824,813.9225	
<b>Elevation (SFT)*</b>	222.837	

  

<b>Convergence Angle</b>	0	59	53.8562061
<b>Scale Factor</b>	0.999957620		
<b>Elevation Adjust. Factor</b>	0.9999893411		
<b>Combined Adjust. Factor</b>	0.9999469615		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST OF U.S. HIGHWAY 64 FOR 5.18 KM (3.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS NORTHEAST OF THE NORTH RAIL, 11.40 SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 633.589 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MEM 2</p> <p>Ref Mon # 2    DAWSEY</p> <p>Ref Mon # 3    180007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180010A	<b>Date Monumented</b> 12/14/1999	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 54	<b>Job Number:</b> 37,110505,110509,110588,11
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 98,772.0677	<b>0.0030</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 562,693.1573	<b>0.0030</b>	<b>Latitude</b> 35 12 37.2025728
<b>Elevation (M)*</b> 66.378	<b>0.0064</b>	<b>Longitude</b> 90 12 46.9720008
<b>Northing (SFT)</b> 324,054.6921		<b>Ellipsoid Height (M):</b> 39.066 0.0060
<b>Easting (SFT)</b> 1,846,102.4669		<b>Geoid Height (M):</b> -27.313
<b>Elevation (SFT)*</b> 217.776		

  

<b>Convergence Angle</b>	1	2	23.3733834
<b>Scale Factor</b>	0.999957100		
<b>Elevation Adjust. Factor</b>	0.9999895832		
<b>Combined Adjust. Factor</b>	0.9999466836		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	12	37.2012012
<b>Longitude</b>	90	12	46.9747728
<b>Ellipsoid Height:</b>	39.189		
<b>Grid Northing (Meters)</b>	98,772.0241		
<b>Grid Easting (Meters)</b>	562,693.0880		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	63	30.60	100.4
<b>MK # 2</b>	NORTH END OF A HEADWALL	247	14.10	46.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARWY	Position and elevation updated in May 2017 by Garver, job 110614, using digital leveling from NGS D 314. *****SupercededElevation:217.800***** 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. Superceded ELEV. 217.725(66.363m) 3-wire levels ran by crew S5111 on job 110505 tying into 3-wire data from job 110337 with first order NGS mark C 5 to NGS mark T 173 in
<b>Ref Mon # 2</b> TN45	
<b>Ref Mon # 3</b> ZME1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180012	<b>Date Monumented</b> 1/3/2003	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> N/A	<b>Job Number:</b> 10488,BB0108,110635,11065
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	91,896.6415    0.0030
<b>Easting (M)</b>	567,804.6751    0.0030
<b>Elevation (M)*</b>	65.378    0.0022
<b>Northing (SFT)</b>	301,497.5647
<b>Easting (SFT)</b>	1,862,872.5049
<b>Elevation (SFT)*</b>	214.496

  

<b>Convergence Angle</b>	1    4    17.9976570
<b>Scale Factor</b>	0.999964801
<b>Elevation Adjust. Factor</b>	0.9999897401
<b>Combined Adjust. Factor</b>	0.9999545415

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35    8    51.0761112		
<b>Longitude</b>	90    9    29.9896056		
<b>Ellipsoid Height:</b>	38.177		
<b>Grid Northing (Meters)</b>	91,896.6481		
<b>Grid Easting (Meters)</b>	567,804.6580		

  

Location Description				
<p>TO REACH THE STATION FROM THE INTERSECTION OF HWY-70 AND INGRAM BLVD. ON THE EASTERN SIDE OF WEST MEMPHIS, GO NORTH ON INGRAM BLVD. FOR ONE BLOCK TO THOMPSON STREET AND THE STATION IN THE NORTHEAST CORNER OF THE INTERSECTION AND IN THE SOUTHWEST CORNER OF THE YARD OF " FIRST CHURCH OF THE NAZERENE " . 12.5 METERS NORTH OF THE CENTER OF THOMPSON STREET, 11.25 METERS EAST OF THE CENTER OF INGRAM BLVD. AND 2.0 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "180012 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET GRATE	164	6.95	22.8
MK # 2	CENTER OF MANHOLE	238	3.50	11.5
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    MEM 2</p> <p>Ref Mon # 3    480016</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103 Position and elevation updated by cre S5113 in June 2017 during job 110650.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180012A	<b>Date Monumented</b> 1/3/2003	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> N/A	<b>Job Number:</b> 10422,110488,BB0108,11072
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,497.9271	
<b>Easting (M)</b>	567,800.6150	
<b>Elevation (M)*</b>	65.850	
<b>Northing (SFT)</b>	303,470.2825	
<b>Easting (SFT)</b>	1,862,859.1844	
<b>Elevation (SFT)*</b>	216.043	

  

<b>Convergence Angle</b>	1	4	18.1628831
<b>Scale Factor</b>	0.999964090		
<b>Elevation Adjust. Factor</b>	0.9999896661		
<b>Combined Adjust. Factor</b>	0.9999537565		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	350	6.30	20.7
<b>MK # 2</b>	WATER METER	62	11.80	38.7
<b>MK # 3</b>	WATER METER	141	16.15	53.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> MEM 2 <b>Ref Mon # 3</b> 480016	ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    35    9    10.5867468

**Longitude**    90    9    29.7049932

**Ellipsoid Height (M):**    38.638   

**Geoid Height (M):**    -27.197

  

**Location Description**

TO REACH THE STATION FROM THE INTERSECTION OF HWY-70 AND INGRAM BLVD. ON THE EASTERN SIDE OF WEST MEMPHIS, GO NORTH ON INGRAM BLVD. FOR 0.50 MILES TO THE STATION IN THE MEDIAN. 8.60 METERS EAST OF THE CENTER OF THE SOUTHBOUND LANE OF INGRAM BLVD., 5.25 METERS WEST OF THE CENTER OF THE NORTHBOUND LANES OF INGRAM BLVD. AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "180012A 2003" AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180013	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 70	<b>Job Number:</b> 11800
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	91,646.7011	
<b>Easting (M)</b>	553,098.0550	
<b>Elevation (M)*</b>	64.022	
<b>Northing (SFT)</b>	300,677.5519	
<b>Easting (SFT)</b>	1,814,622.5354	
<b>Elevation (SFT)*</b>	210.046	

  

<b>Convergence Angle</b>	0	58	39.8484625
<b>Scale Factor</b>	0.999964786		
<b>Elevation Adjust. Factor</b>	0.9999899529		
<b>Combined Adjust. Factor</b>	0.9999547393		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST COR OF BRIDGE	113	2.74	9.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	MSCD
<b>Ref Mon # 2</b>	ARBT
<b>Ref Mon # 3</b>	ZME1

  

Comments
3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07. *****MONUMENT NOT FOUND BY S5103 IN MAY 2022. CREW RESET MONUMENT AND CALLED IT 180013 RESET.

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180013A	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 70	<b>Job Number:</b> 110800, 110738
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	91,646.2429	0.0010			
<b>Easting (M)</b>	552,597.2813	0.0010			
<b>Elevation (M)*</b>	63.552				
<b>Northing (SFT)</b>	300,676.0486				
<b>Easting (SFT)</b>	1,812,979.5804				
<b>Elevation (SFT)*</b>	208.503				

  

<b>Convergence Angle</b>	0	58	28.3373130
<b>Scale Factor</b>	0.999964776		
<b>Elevation Adjust. Factor</b>	0.9999900268		
<b>Combined Adjust. Factor</b>	0.9999548031		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	8	51.7623288
<b>Longitude</b>	90	19	30.8837244
<b>Ellipsoid Height:</b>	36.442		
<b>Grid Northing (Meters)</b>	91,646.2191		
<b>Grid Easting (Meters)</b>	552,597.2900		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	170	27.40	89.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARJB (MSCD)	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.106m. SUPERCEDED ELEV. WAS 63.5763m
Ref Mon # 2    AROC (ARBT)	
Ref Mon # 3    ARWM, ARWY (ZME1)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180014	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 70	<b>Job Number:</b> 110800,110524, 110738
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	91,701.8455    0.0010
<b>Easting (M)</b>	558,400.2509    0.0020
<b>Elevation (M)*</b>	63.997

  

<b>Northing (SFT)</b>	300,858.4714	
<b>Easting (SFT)</b>	1,832,018.1565	
<b>Elevation (SFT)*</b>	209.964	

  

<b>Convergence Angle</b>	1   0   41.7477212
<b>Scale Factor</b>	0.999964830
<b>Elevation Adjust. Factor</b>	0.9999899568
<b>Combined Adjust. Factor</b>	0.9999547872

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	35   8   50.3038608
<b>Longitude</b>	90   15   41.6168388
<b>Ellipsoid Height:</b>	36.845
<b>Grid Northing (Meters)</b>	91,701.8561
<b>Grid Easting (Meters)</b>	558,400.2500

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 1.8 MILES TO THE STATION MARK ON THE LEFT, AT THE SOUTHEAST CORNER OF AN ASPHALT PARKING LOT FOT THE AHTD MAINT. YARD AT LEHI, 82.7 FEET EAST OF AN ASPHALT DRIVE AND NORTH 87.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180014 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF 24" CMP	239	20.79	68.2
MK # 2	POWER POLE W/GUY	72	22.25	73.0
MK # 3	10" FORKED TREE	26	14.54	47.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB (MSCD)	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07. *****S5103 RE- TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.142m. SUPERCEDED ELEV. WAS 64.0157m
<b>Ref Mon # 2</b> AROC (ARBT)	
<b>Ref Mon # 3</b> ARWM, ARWY (ZME1)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180014A	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 70	<b>Job Number:</b> 110800,110524, 110738
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	91,680.6116 0.0010
<b>Easting (M)</b>	557,642.3743 0.0010
<b>Elevation (M)*</b>	63.936
<b>Northing (SFT)</b>	300,788.8066
<b>Easting (SFT)</b>	1,829,531.6897
<b>Elevation (SFT)*</b>	209.764

  

<b>Convergence Angle</b>	1 0 24.3185528
<b>Scale Factor</b>	0.999964839
<b>Elevation Adjust. Factor</b>	0.9999899665
<b>Combined Adjust. Factor</b>	0.9999548058

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	8	50.0464500
<b>Longitude</b>	90	16	11.5692240
<b>Ellipsoid Height:</b>	36.772		
<b>Grid Northing (Meters)</b>	91,680.5722		
<b>Grid Easting (Meters)</b>	557,642.3700		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 1.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 26.5 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180014A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER	177	31.27	102.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARJB (MSCD)	<p>3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON &amp; EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.</p> <p>*****S5103 RE-</p> <p>TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 &amp; Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.137m. SUPERCEDED ELEV. WAS 69.9386m</p>
Ref Mon # 2 AROC (ARBT)	
Ref Mon # 3 ARWM, ARWY (ZME1)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180015	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 147	<b>Job Number:</b> 11800
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	95,688.6351	
<b>Easting (M)</b>	555,530.0880	
<b>Elevation (M)*</b>	64.981	
<b>Northing (SFT)</b>	313,938.4637	
<b>Easting (SFT)</b>	1,822,601.6304	
<b>Elevation (SFT)*</b>	213.191	

  

<b>Convergence Angle</b>	0	59	37.3632832
<b>Scale Factor</b>	0.999960222		
<b>Elevation Adjust. Factor</b>	0.9999898025		
<b>Combined Adjust. Factor</b>	0.9999500249		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A 36" CMP	2	0.61	2.0
<b>MK # 2</b>	POER POLE	97	23.74	77.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> MSCD <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ZME1	<b>Comments</b> 3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
---	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO NORTH ON HIGHWAY 147 2.5 MILES TO THE STATION MARK ON THE LEFT, 12.4 FEET SOUTH OF A FIELD ENTRANCE, WEST 37.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180015 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	180015A
<b>Geodetic Azimuth</b>	180 46 57
<b>Grid Azimuth</b>	179 47 20

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180015A	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 147	<b>Job Number:</b> 11800
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,880.3991	
<b>Easting (M)</b>	555,533.0670	
<b>Elevation (M)*</b>	64.179	
<b>Northing (SFT)</b>	311,286.7760	
<b>Easting (SFT)</b>	1,822,611.4040	
<b>Elevation (SFT)*</b>	210.561	

  

<b>Convergence Angle</b>	0	59	37.1094224
<b>Scale Factor</b>	0.999961112		
<b>Elevation Adjust. Factor</b>	0.9999899283		
<b>Combined Adjust. Factor</b>	0.9999510407		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 36" CMP	28	2.44	8.0
MK # 2	POWER POLE W/GUY	77	24.26	79.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 MSCD	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
Ref Mon # 2 ARBT	
Ref Mon # 3 ZME1	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 35.0602644
<b>Longitude</b>	90 17 32.6984316
<b>Ellipsoid Height (M):</b>	37.005
<b>Geoid Height (M):</b>	-27.150

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO NORTH ON HIGHWAY 147 2.0 MILES TO THE STATION MARK ON THE LEFT, 12.0 FEET NORTH OF A FIELD ENTRANCE, WEST 39.4 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180015A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	180015
<b>Geodetic Azimuth</b>	0 46 57
<b>Grid Azimuth</b>	359 47 20

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180016	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> NA	<b>Job Number:</b> 110800,110505
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,489.6381	
<b>Easting (M)</b>	558,957.6160	
<b>Elevation (M)*</b>	65.451	
<b>Northing (SFT)</b>	310,004.7543	
<b>Easting (SFT)</b>	1,833,846.7785	
<b>Elevation (SFT)*</b>	214.733	

  

<b>Convergence Angle</b>	1	0	55.6951408
<b>Scale Factor</b>	0.999961616		
<b>Elevation Adjust. Factor</b>	0.9999897288		
<b>Combined Adjust. Factor</b>	0.9999513452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF A CMP	264	8.23	27.0
<b>MK # 2</b>	NORTH END OF A CMP	315	11.13	36.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> MSCD	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> ZME1	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 20.4337020
<b>Longitude</b>	90 15 17.6480172
<b>Ellipsoid Height (M):</b>	38.266
<b>Geoid Height (M):</b>	-27.165

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 2.1 MILES TO KUHN ROAD AND TURN LEFT (NORTH) ON KUHN ROAD AND GO 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF THE CENTER LINE OF AN ASPHALT TURN IN 11.3 FEET AND AT THE SOUTHEAST CORNER OF AN ASPHALT TURN IN, EAST 59.3 FEET OF THE CENTER LINE OF THE HIGHWAY AND EAST 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180016 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180016A	<b>Date Monumented</b> 1/9/2007	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> NA	<b>Job Number:</b> 110800,110505
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	93,897.3021	
<b>Easting (M)</b>	558,930.4680	
<b>Elevation (M)*</b>	64.745	
<b>Northing (SFT)</b>	308,061.3986	
<b>Easting (SFT)</b>	1,833,757.7104	
<b>Elevation (SFT)*</b>	212.416	

  

<b>Convergence Angle</b>	1	0	54.8295710
<b>Scale Factor</b>	0.999962285		
<b>Elevation Adjust. Factor</b>	0.9999898396		
<b>Combined Adjust. Factor</b>	0.9999521249		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A CULVERT	143	11.89	39.0
<b>MK # 2</b>	WELL TEST SITE	317	1.34	4.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> MSCD <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ZME1	<b>Comments</b> 3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
---	---

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 1.2309492
<b>Longitude</b>	90 15 19.1355084
<b>Ellipsoid Height (M):</b>	37.543
<b>Geoid Height (M):</b>	-27.160

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 2.1 MILES TO KUHN ROAD AND TURN LEFT (NORTH) ON KUHN ROAD AND GO 1.4 MILES TO THE STATION MARK ON THE LEFT, NORTH OF THE CENTER LINE OF A DIRT TURN IN 37.0 FEET, WEST 43.0 FEET OF THE CENTER LINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180016A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	180016
<b>Geodetic Azimuth</b>	3 38 22
<b>Grid Azimuth</b>	2 37 27

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180017	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> I-40	<b>Job Number:</b> 110542
--------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	92,635.7751				
<b>Easting (M)</b>	575,004.5090				
<b>Elevation (M)*</b>	74.943				
<b>Northing (SFT)</b>	303,922.5388				
<b>Easting (SFT)</b>	1,886,493.9599				
<b>Elevation (SFT)*</b>	245.875				

  

<b>Convergence Angle</b>	1	7	3.8193937
<b>Scale Factor</b>	0.999964090		
<b>Elevation Adjust. Factor</b>	0.9999882391		
<b>Combined Adjust. Factor</b>	0.9999523296		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE SOUTHWEST CORNER OF THE I-40 MISSISSIPPI RIVER BRIDGE GO EAST 295 FEET TO THE MARK ON THE SOUTH SIDE OF THE EAST BOUND LANE OF INTERSTATE 40, SOUTH 4.4 FEET FROM THE EDGE OF THE CONCRETE, NORTH 101.3 OF THE C/L OF A GRAVEL ROAD, AND SOUTH 2.1 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180017 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARBT, MSB6</p> <p>Ref Mon # 2    TN42</p> <p>Ref Mon # 3    C 5</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180017A	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> I-40	<b>Job Number:</b> 110542
---------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	92,625.2341				
<b>Easting (M)</b>	574,507.4930				
<b>Elevation (M)*</b>	72.524				
<b>Northing (SFT)</b>	303,887.9555				
<b>Easting (SFT)</b>	1,884,863.3333				
<b>Elevation (SFT)*</b>	237.939				

  

<b>Convergence Angle</b>	1	6	52.3898465
<b>Scale Factor</b>	0.999964091		
<b>Elevation Adjust. Factor</b>	0.9999886187		
<b>Combined Adjust. Factor</b>	0.9999527102		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE SOUTHWEST CORNER OF THE I-40 MISSISSIPPI RIVER BRIDGE GO EAST 1,915 FEET TO THE MARK ON THE SOUTH SIDE OF THE EAST BOUND LANE OF INTERSTATE 40, SOUTH 5.1 FEET FROM THE EDGE OF THE CONCRETE, NORTH 107 FEET FROM THE C/L OF A DITCH, AND NORTH 1.5 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180017A 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT, MSB6</p> <p>Ref Mon # 2    TN42</p> <p>Ref Mon # 3    C 5</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180018	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 147	<b>Job Number:</b> 110557
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,442.9957	
<b>Easting (M)</b>	552,073.0447	
<b>Elevation (M)*</b>	61.898	
<b>Northing (SFT)</b>	227,830.8951	
<b>Easting (SFT)</b>	1,811,259.6475	
<b>Elevation (SFT)*</b>	203.077	

  

<b>Convergence Angle</b>	0	58	7.6564467
<b>Scale Factor</b>	0.999997214		
<b>Elevation Adjust. Factor</b>	0.9999902863		
<b>Combined Adjust. Factor</b>	0.9999875003		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of asphalt drive	175	8.20	26.9
MK # 2	power pole with service	265	23.80	78.1
MK # 3	Power Pole	295	21.30	69.9

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           ELEV. BASED ON DIGITAL LEVELS BY B&amp;F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, &amp; NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 &amp; H 218 BUT PROVED         </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED			

  

Location Description
Starting at the junction of highway 131 and 147 go south east on 131 for 0.25 miles to the station on the right. The station is a standard alum. cap stamped(180018 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot south of a witness post and 57 foot south west of the CL of highway 131. Lat.34.5652 Lon. 090.2007

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 56 51.6554124
<b>Longitude</b>	90 20 6.4243464
<b>Ellipsoid Height (M):</b>	34.772
<b>Geoid Height (M):</b>	-27.161

  

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180018_1	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 149	<b>Job Number:</b> 110571
----------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,216.0514	
<b>Easting (M)</b>	537,598.7100	
<b>Elevation (M)*</b>	63.131	
<b>Northing (SFT)</b>	309,107.1620	
<b>Easting (SFT)</b>	1,763,771.7677	
<b>Elevation (SFT)*</b>	207.122	

  

<b>Convergence Angle</b>	0	52	44.4711830
<b>Scale Factor</b>	0.999961527		
<b>Elevation Adjust. Factor</b>	0.9999900928		
<b>Combined Adjust. Factor</b>	0.9999516202		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	south of the center line of Dixie road	0	8.53	28.0
<b>MK # 2</b>	north of Power pole	185	6.71	22.0
<b>MK # 3</b>	East of centerline of 149	90	12.19	40.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.</td> </tr> </table>	Comments	ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.
Comments			
ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180018A	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 147	<b>Job Number:</b> 110557
---------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,417.7550	
<b>Easting (M)</b>	551,303.9882	
<b>Elevation (M)*</b>	62.002	
<b>Northing (SFT)</b>	227,748.0845	
<b>Easting (SFT)</b>	1,808,736.5013	
<b>Elevation (SFT)*</b>	203.418	

  

<b>Convergence Angle</b>	0	57	50.0124360
<b>Scale Factor</b>	0.999997235		
<b>Elevation Adjust. Factor</b>	0.9999902700		
<b>Combined Adjust. Factor</b>	0.9999875050		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
Starting at the junction of highways 131 and 147 go south west on 147 0.4 miles to the station on the left. The station is a standard alum. cap stamped (180018A 2011) and is set on a 4 foot 5/8" rebar. It is 19 foot south of the CL of highway 147 and 2 foot north of a witness post. Lat.34.5651 Lon.090.2036				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	60	40.50	132.9	
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180018A_1	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 149	<b>Job Number:</b> 110571
-----------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,234.6592	
<b>Easting (M)</b>	537,032.9919	
<b>Elevation (M)*</b>	62.762	
<b>Northing (SFT)</b>	309,168.2111	
<b>Easting (SFT)</b>	1,761,915.7409	
<b>Elevation (SFT)*</b>	205.910	

  

<b>Convergence Angle</b>	0	52	31.4694628
<b>Scale Factor</b>	0.999961496		
<b>Elevation Adjust. Factor</b>	0.9999901508		
<b>Combined Adjust. Factor</b>	0.9999516471		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	north of center line of dixie road	0	5.50	18.0
<b>MK # 2</b>	south of telephone box	5	3.66	12.0
<b>MK # 3</b>	west of field entrance	90	44.20	145.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180019	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 147	<b>Job Number:</b> 110557
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	73,338.7128		
<b>Easting (M)</b>	551,764.7421		
<b>Elevation (M)*</b>	61.001		
<b>Northing (SFT)</b>	240,612.0936		
<b>Easting (SFT)</b>	1,810,248.1580		
<b>Elevation (SFT)*</b>	200.133		

  

<b>Convergence Angle</b>	0	58	2.0952958
<b>Scale Factor</b>	0.999990640		
<b>Elevation Adjust. Factor</b>	0.9999904271		
<b>Combined Adjust. Factor</b>	0.9999810672		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of Williford Road	0	6.10	20.0
<b>MK # 2</b>	Telephone box	235	11.89	39.0
<b>MK # 3</b>	16" R.C.P.	260	13.10	43.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180019A	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 147	<b>Job Number:</b> 110557
---------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	73,261.0938	
<b>Easting (M)</b>	552,288.3323	
<b>Elevation (M)*</b>	61.634	
<b>Northing (SFT)</b>	240,357.4386	
<b>Easting (SFT)</b>	1,811,965.9702	
<b>Elevation (SFT)*</b>	202.210	

  

<b>Convergence Angle</b>	0	58	14.0761077
<b>Scale Factor</b>	0.999990781		
<b>Elevation Adjust. Factor</b>	0.9999903277		
<b>Combined Adjust. Factor</b>	0.9999811088		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a Head Wall over a double 18" C.M.P	90	0.60	2.0
MK # 2	center of the two culverts	90	1.98	6.5
MK # 3	CL of Williford road	0	4.27	14.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180020	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 147	<b>Job Number:</b> 110557
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	77,952.7380	
<b>Easting (M)</b>	551,572.9565	
<b>Elevation (M)*</b>	62.327	
<b>Northing (SFT)</b>	255,749.9413	
<b>Easting (SFT)</b>	1,809,618.9415	
<b>Elevation (SFT)*</b>	204.483	

  

<b>Convergence Angle</b>	0	57	59.4814527
<b>Scale Factor</b>	0.999983339		
<b>Elevation Adjust. Factor</b>	0.9999902190		
<b>Combined Adjust. Factor</b>	0.9999735582		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of the South spur of highway 50 and 147	50	18.29	60.0
MK # 2	CL of highway 50	330	15.24	50.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           ELEV. BASED ON DIGITAL LEVELS BY B&amp;F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, &amp; NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 &amp; H 218 BUT PROVED         </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED			

  

Location Description	
This station is at the south west corner of the triangle made by the intersection of highway 147 and 50. The station is a standard alum. cap stamped (180020 2011) and is set on a 4 foot 5/8" rebar. It is 50 foot south of the CL of 50 and 2 foot north of a witness post. Lat.350128 Lon.0902021	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	35 1 28.0329276
<b>Longitude</b>	90 20 20.4731628
<b>Ellipsoid Height (M):</b>	35.201
<b>Geoid Height (M):</b>	-27.155

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180020A	<b>Date Monumented</b> 10/24/2011	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 147	<b>Job Number:</b> 110557
---------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	77,883.3798	
<b>Easting (M)</b>	550,673.2517	
<b>Elevation (M)*</b>	61.908	
<b>Northing (SFT)</b>	255,522.3886	
<b>Easting (SFT)</b>	1,806,667.1600	
<b>Elevation (SFT)*</b>	203.111	

  

<b>Convergence Angle</b>	0	57	38.8051782
<b>Scale Factor</b>	0.999983422		
<b>Elevation Adjust. Factor</b>	0.9999902847		
<b>Combined Adjust. Factor</b>	0.9999737068		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of a gravel field entrance	85	6.40	21.0
<b>MK # 2</b>	CL of a ditch	260	10.67	35.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180021	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,618.2866	
<b>Easting (M)</b>	539,687.2440	
<b>Elevation (M)*</b>	61.430	
<b>Northing (SFT)</b>	346,515.9953	
<b>Easting (SFT)</b>	1,770,623.8997	
<b>Elevation (SFT)*</b>	201.540	

  

<b>Convergence Angle</b>	0	53	36.5841526
<b>Scale Factor</b>	0.999950366		
<b>Elevation Adjust. Factor</b>	0.9999903598		
<b>Combined Adjust. Factor</b>	0.9999407263		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole w/2 guy wires	81	10.60	34.8
<b>MK # 2</b>	Northwest corner of concrete block foundation	105	5.60	18.4
<b>MK # 3</b>	Power pole w/twin transformers	267	27.10	88.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180022	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,861.2539	
<b>Easting (M)</b>	546,278.5967	
<b>Elevation (M)*</b>	64.775	
<b>Northing (SFT)</b>	344,032.2972	
<b>Easting (SFT)</b>	1,792,249.0293	
<b>Elevation (SFT)*</b>	212.515	

  

<b>Convergence Angle</b>	0	56	8.0525196
<b>Scale Factor</b>	0.999951101		
<b>Elevation Adjust. Factor</b>	0.9999898348		
<b>Combined Adjust. Factor</b>	0.9999409363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 12.4 miles to the station on the right. The station is 2.0 ft. Southwest of a witness post, 43.5 ft. Northeast of the centerline of Hwy. 64, and 19.0 ft. Southeast of a field road. The station mark is a 2 1/2 in. cap stamped "180022 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	180022A
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<p>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180022A	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,258.2279	
<b>Easting (M)</b>	545,800.0854	
<b>Elevation (M)*</b>	65.158	
<b>Northing (SFT)</b>	345,334.7027	
<b>Easting (SFT)</b>	1,790,679.1135	
<b>Elevation (SFT)*</b>	213.772	

  

<b>Convergence Angle</b>	0	55	57.1855408
<b>Scale Factor</b>	0.999950754		
<b>Elevation Adjust. Factor</b>	0.9999897747		
<b>Combined Adjust. Factor</b>	0.9999405292		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP	208	6.00	19.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
--	---

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 16 17.0824080
<b>Longitude</b>	90 23 50.6400216
<b>Ellipsoid Height (M):</b>	37.920
<b>Geoid Height (M):</b>	-27.239

Location Description
To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 12.8 miles to the station on the right. The station is 2.0 ft. South of a witness post, 64.0 ft. north of the centerline of Hwy. 64, and 21.0 ft. East of the center of gravel road. The station mark is a 2 1/2 in. cap stamped "180022A 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

<b>AZ Mark Station</b>	180022
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180023	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,819.1522	
<b>Easting (M)</b>	549,087.1034	
<b>Elevation (M)*</b>	65.585	
<b>Northing (SFT)</b>	337,332.5018	
<b>Easting (SFT)</b>	1,801,463.2717	
<b>Elevation (SFT)*</b>	215.173	

  

<b>Convergence Angle</b>	0	57	11.9240745
<b>Scale Factor</b>	0.999952958		
<b>Elevation Adjust. Factor</b>	0.9999897077		
<b>Combined Adjust. Factor</b>	0.9999426662		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch drain pipe	149	11.50	37.7
MK # 2	Gas valve	181	21.00	68.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180023A	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,294.5824	
<b>Easting (M)</b>	549,103.7617	
<b>Elevation (M)*</b>	65.847	
<b>Northing (SFT)</b>	335,611.4758	
<b>Easting (SFT)</b>	1,801,517.9248	
<b>Elevation (SFT)*</b>	216.032	

  

<b>Convergence Angle</b>	0	57	12.1065641
<b>Scale Factor</b>	0.999953441		
<b>Elevation Adjust. Factor</b>	0.9999896666		
<b>Combined Adjust. Factor</b>	0.9999431081		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 10.1 miles to County Road 13 (Oil Well Corner Rd.), then go South on County Road 13 (Oil Well Corner Rd.) for 0.3 miles to the station on the left. The station is 8.0 ft. West of the witness post, and 18.0 ft. East of the centerline of Hwy. 13 (Oil Well Corner Rd.) The station mark is a 2 1/2 in. cap stamped "180023A 2012" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	91	2.45	8.0
MK # 2	Telephone Box	177	21.50	70.5
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180024	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 50	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,379.8364	
<b>Easting (M)</b>	552,335.1209	
<b>Elevation (M)*</b>	67.893	
<b>Northing (SFT)</b>	332,610.3466	
<b>Easting (SFT)</b>	1,812,119.4758	
<b>Elevation (SFT)*</b>	222.746	

  

<b>Convergence Angle</b>	0	58	26.1147225
<b>Scale Factor</b>	0.999954351		
<b>Elevation Adjust. Factor</b>	0.9999893455		
<b>Combined Adjust. Factor</b>	0.9999436970		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	358	3.00	9.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180024A	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 50	<b>Job Number:</b> 110588
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	100,853.9769	
<b>Easting (M)</b>	552,352.0162	
<b>Elevation (M)*</b>	67.431	
<b>Northing (SFT)</b>	330,885.0892	
<b>Easting (SFT)</b>	1,812,174.9065	
<b>Elevation (SFT)*</b>	221.229	

  

<b>Convergence Angle</b>	0	58	26.2977840
<b>Scale Factor</b>	0.999954855		
<b>Elevation Adjust. Factor</b>	0.9999894180		
<b>Combined Adjust. Factor</b>	0.9999442735		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" in. CMP under fld ent	200	5.20	17.1
<b>MK # 2</b>	Power Pole	255	17.50	57.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180025	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	97,824.2855	
<b>Easting (M)</b>	556,872.8864	
<b>Elevation (M)*</b>	68.047	
<b>Northing (SFT)</b>	320,945.1767	
<b>Easting (SFT)</b>	1,827,007.1281	
<b>Elevation (SFT)*</b>	223.249	

  

<b>Convergence Angle</b>	1	0	9.1022758
<b>Scale Factor</b>	0.999957970		
<b>Elevation Adjust. Factor</b>	0.9999893214		
<b>Combined Adjust. Factor</b>	0.9999472918		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Railroad signal pole (semaphore)	160	16.40	53.8
<b>MK # 2</b>	18" CMP	278	9.60	31.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
---	---

  

Location Description	
To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 4.3 miles to the station on the left. The station is 3.0 ft. Northeast of a witness post, 50.0 ft. North of the nearest Railroad Rail, and 49.0 ft. Southwest of the centerline of Hwy. 64. The station mark is a 2 1/2 in. cap stamped "180025 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 12 9.8178552
<b>Longitude</b>	90 16 37.7183640
<b>Ellipsoid Height (M):</b>	40.863
<b>Geoid Height (M):</b>	-27.182

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180025A	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 64	<b>Job Number:</b> 110588
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	98,152.0506				
<b>Easting (M)</b>	556,299.2269				
<b>Elevation (M)*</b>	68.271				
<b>Northing (SFT)</b>	322,020.5193				
<b>Easting (SFT)</b>	1,825,125.0469				
<b>Elevation (SFT)*</b>	223.985				

  

<b>Convergence Angle</b>	0	59	56.0384877
<b>Scale Factor</b>	0.999957620		
<b>Elevation Adjust. Factor</b>	0.9999892862		
<b>Combined Adjust. Factor</b>	0.9999469066		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fiber Optic Manhole	310	31.20	102.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180026	<b>Date Monumented</b> 1/28/2013	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 42	<b>Job Number:</b> 110567
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,325.4084	
<b>Easting (M)</b>	549,067.7757	
<b>Elevation (M)*</b>	65.416	
<b>Northing (SFT)</b>	381,644.2774	
<b>Easting (SFT)</b>	1,801,399.8608	
<b>Elevation (SFT)*</b>	214.620	

  

<b>Convergence Angle</b>	0	57	16.6589295
<b>Scale Factor</b>	0.999942845		
<b>Elevation Adjust. Factor</b>	0.9999897341		
<b>Combined Adjust. Factor</b>	0.9999325797		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N end of culvert	102	1.83	6.0
MK # 2	Power pole	316	32.61	107.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180026A	<b>Date Monumented</b> 1/28/2013	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 42	<b>Job Number:</b> 110567
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	115,876.8140	
<b>Easting (M)</b>	549,170.9687	
<b>Elevation (M)*</b>	65.777	
<b>Northing (SFT)</b>	380,172.5139	
<b>Easting (SFT)</b>	1,801,738.4198	
<b>Elevation (SFT)*</b>	215.802	

  

<b>Convergence Angle</b>	0	57	18.8651279
<b>Scale Factor</b>	0.999943110		
<b>Elevation Adjust. Factor</b>	0.9999896776		
<b>Combined Adjust. Factor</b>	0.9999327882		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole with light	268	29.57	97.0
<b>MK # 2</b>	Radio tower	196	28.65	94.0
<b>MK # 3</b>	Fence corner	89	10.36	34.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.</td> </tr> </table>	Comments	ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.
Comments			
ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.			

  

Location Description	
To reach from the intersection of I 55 and Hwy. 42 in Turrell. Go West on Hwy. 42 for 4.4 miles to the station on the left. The station is 3 ft. North of witness post, and 36 ft. South of cl of Hwy. 42. The station is a 2 1/2 in. cap stamped "180026A 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180027	<b>Date Monumented</b> 5/1/2017	<b>Monumented By</b> Garver	<b>County</b> CRITTENDEN	<b>Route</b> 77	<b>Job Number:</b> 110614
--------------------------	------------------------------------	--------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	99,717.3571 0.0030
<b>Easting (M)</b>	563,880.3579 0.0030
<b>Elevation (M)*</b>	67.010 0.0020
<b>Northing (SFT)</b>	327,156.0291
<b>Easting (SFT)</b>	1,849,997.4742
<b>Elevation (SFT)*</b>	219.847

  

<b>Convergence Angle</b>	1 2 51.0809778
<b>Scale Factor</b>	0.999956169
<b>Elevation Adjust. Factor</b>	0.9999894841
<b>Combined Adjust. Factor</b>	0.9999456536

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 13 7.1704740
<b>Longitude</b>	90 11 59.3561976
<b>Ellipsoid Height (M):</b>	39.691 0.0000
<b>Geoid Height (M):</b>	-27.319

  

Location Description
<p>From the intersection of I-55 and Hwy-65 in Marion, go East for .50 miles to the junction of Hwy-77 and then go North for .30 miles to the station on the Left. Standard 2 ½ " GPS Cap stamped 180027 2017 on top of a 4ft Rebar set below ground level.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL OF 77		8.84	29.0
<b>MK # 2</b>	TP		18.29	60.0
<b>MK # 3</b>	WITNESS POLE		0.30	1.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARWY <b>Ref Mon # 2</b> TN45 <b>Ref Mon # 3</b> ZME1	Elevation by digital levels from NGS BM D 314, by Garver in May 2017 during job 110614

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180028	<b>Date Monumented</b> 6/12/2016	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 78	<b>Job Number:</b> 110650
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	94,512.7141 0.0030
<b>Easting (M)</b>	570,595.7076 0.0030
<b>Elevation (M)*</b>	66.337 0.0007
<b>Northing (SFT)</b>	310,080.4628
<b>Easting (SFT)</b>	1,872,029.4174
<b>Elevation (SFT)*</b>	217.642

  

<b>Convergence Angle</b>	1 5 23.2948302
<b>Scale Factor</b>	0.999961831
<b>Elevation Adjust. Factor</b>	0.9999895896
<b>Combined Adjust. Factor</b>	0.9999514210

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>		None	
<b>Elevation Datum:</b>			
<b>Geoid Datum:</b>		GEOID12B	
<b>Latitude</b>	35 10	14.2444632	
<b>Longitude</b>	90 7	37.7750316	
<b>Ellipsoid Height (M):</b>	39.021	0.0050	
<b>Geoid Height (M):</b>	-27.316		

  

<b>Location Description</b>
<p>To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.2 miles to station on the right. 18' West of a sign post and power pole, 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Sign post		18.00	59.1
<b>MK # 2</b>	Power Pole		18.00	59.1
<b>MK # 3</b>	CL Hwy 38		19.00	62.3

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> ARWY</p> <p><b>Ref Mon # 2</b> ARPG</p> <p><b>Ref Mon # 3</b> ZME1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180028A	<b>Date Monumented</b> 6/12/2016	<b>Monumented By</b> AHTD	<b>County</b> Crittenden	<b>Route</b> 78	<b>Job Number:</b> 110650
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	95,037.7839    0.0030
<b>Easting (M)</b>	570,590.6216    0.0030
<b>Elevation (M)*</b>	66.258    0.0007
<b>Northing (SFT)</b>	311,803.1293
<b>Easting (SFT)</b>	1,872,012.7310
<b>Elevation (SFT)*</b>	217.383

  

<b>Convergence Angle</b>	1    5    23.4075512
<b>Scale Factor</b>	0.999961242
<b>Elevation Adjust. Factor</b>	0.9999896020
<b>Combined Adjust. Factor</b>	0.9999508444

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>		None	
<b>Elevation Datum:</b>			
<b>Geoid Datum:</b>		GEOID12B	
<b>Latitude</b>	35    10    31.2831012		
<b>Longitude</b>	90    7    37.5813192		
<b>Ellipsoid Height (M):</b>	38.939    0.0050		
<b>Geoid Height (M):</b>	-27.317		

  

Location Description
<p>To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.55 miles to station on the right. 16.5' West of a sign, 17' West of Power Pole, and 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028A 2017" set ontop of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Sign		16.50	54.1
<b>MK # 2</b>	Power Pole		17.00	55.8
<b>MK # 3</b>	CL Hwy 38		20.60	67.6

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARWY</p> <p><b>Ref Mon # 2</b>    ARPG</p> <p><b>Ref Mon # 3</b>    ZME1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190001	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853,110423,110808
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	104,034.2005	0.0018	
<b>Easting (M)</b>	509,792.7019	0.0018	
<b>Elevation (M)*</b>	78.604		
<b>Northing (SFT)</b>	341,318.8728		
<b>Easting (SFT)</b>	1,672,544.8895		
<b>Elevation (SFT)*</b>	257.887		

  

<b>Convergence Angle</b>	0	42	7.8325596
<b>Scale Factor</b>	0.999951366		
<b>Elevation Adjust. Factor</b>	0.9999876646		
<b>Combined Adjust. Factor</b>	0.9999390312		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	15	54.0348336
<b>Longitude</b>	90	47	35.8927188
<b>Ellipsoid Height:</b>	51.409		
<b>Grid Northing (Meters)</b>	104,034.2021		
<b>Grid Easting (Meters)</b>	509,792.6880		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.73 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 10.14 METERS WEST OF THE CENTER OF HIGHWAY 1, 5.95 EAST METERS OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				190001A	
MK # 2	NONE				179 50 23.36445	
MK # 3	NONE				179 08 15.53207	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 DAWSEY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190001A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853,110423,110808
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	103,527.9836 0.0018
<b>Easting (M)</b>	509,800.3420 0.0018
<b>Elevation (M)*</b>	78.396
<b>Northing (SFT)</b>	339,658.0595
<b>Easting (SFT)</b>	1,672,569.9554
<b>Elevation (SFT)*</b>	257.204

  

<b>Convergence Angle</b>	0 42 7.8656161
<b>Scale Factor</b>	0.999951810
<b>Elevation Adjust. Factor</b>	0.9999876973
<b>Combined Adjust. Factor</b>	0.9999395079

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35 15	37.6061184	
<b>Longitude</b>	90 47	35.8367100	
<b>Ellipsoid Height:</b>	51.202		
<b>Grid Northing (Meters)</b>	103,527.9791		
<b>Grid Easting (Meters)</b>	509,800.3080		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.11 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 2</b>    NEWSPORT</p> <p><b>Ref Mon # 3</b>    DAWSEY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190002	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,934.8801	
<b>Easting (M)</b>	509,923.5070	
<b>Elevation (M)*</b>	78.886	
<b>Northing (SFT)</b>	357,397.1858	
<b>Easting (SFT)</b>	1,672,974.0392	
<b>Elevation (SFT)*</b>	258.812	

  

<b>Convergence Angle</b>	0	42	12.2289916
<b>Scale Factor</b>	0.999947395		
<b>Elevation Adjust. Factor</b>	0.9999876204		
<b>Combined Adjust. Factor</b>	0.9999350160		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.00 METERS SOUTHWEST OF THE CENTER OF COUNTY ROAD 240, 13.30 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="NEWSPORT"/></p> <p>Ref Mon # 3 <input type="text" value="DAWSEY"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on 3 wire from NGS point A 182</p>
---	---

  

<b>AZ Mark Station</b>	190002A
<b>Geodetic Azimuth</b>	46 59 08.374232
<b>Grid Azimuth</b>	46 16 56.114219

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190002A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	109,315.3601	
<b>Easting (M)</b>	510,321.4090	
<b>Elevation (M)*</b>	79.857	
<b>Northing (SFT)</b>	358,645.4773	
<b>Easting (SFT)</b>	1,674,279.4894	
<b>Elevation (SFT)*</b>	261.998	

  

<b>Convergence Angle</b>	0	42	21.5022394
<b>Scale Factor</b>	0.999947115		
<b>Elevation Adjust. Factor</b>	0.9999874680		
<b>Combined Adjust. Factor</b>	0.9999345837		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CMP	140			7.47	24.5
MK # 2	NONE					
MK # 3	NONE					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	Elevations based on 3 wire from NGS point A 182
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 DAWSEY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190003	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	115,616.3830	
<b>Easting (M)</b>	511,713.1980	
<b>Elevation (M)*</b>	81.334	
<b>Northing (SFT)</b>	379,318.0832	
<b>Easting (SFT)</b>	1,678,845.7171	
<b>Elevation (SFT)*</b>	266.843	

  

<b>Convergence Angle</b>	0	42	55.3742453
<b>Scale Factor</b>	0.999942941		
<b>Elevation Adjust. Factor</b>	0.9999872362		
<b>Combined Adjust. Factor</b>	0.9999301779		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	250	7.46	24.5
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/> <b>Ref Mon # 2</b> <input type="text" value="NEWSPORT"/> <b>Ref Mon # 3</b> <input type="text" value="DAWSEY"/>	Elevations based on 3 wire from NGS point U 182     

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 22 9.0749316
<b>Longitude</b>	90 46 14.1912624
<b>Ellipsoid Height (M):</b>	54.018
<b>Geoid Height (M):</b>	-27.265

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 4.07 KM (2.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.32 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 8.00 METERS NORTH OF THE CENTER OF COUNTY ROAD 3420 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190003 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190003A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	115,233.3600				
<b>Easting (M)</b>	511,676.6920				
<b>Elevation (M)*</b>	82.274				
<b>Northing (SFT)</b>	378,061.4486				
<b>Easting (SFT)</b>	1,678,725.9470				
<b>Elevation (SFT)*</b>	269.927				

  

<b>Convergence Angle</b>	0	42	54.4225399
<b>Scale Factor</b>	0.999943167		
<b>Elevation Adjust. Factor</b>	0.9999870887		
<b>Combined Adjust. Factor</b>	0.9999302564		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE RIGHT JUST SOUTH OF A BRIDGE. THE STATION IS 9.65 METERS NORTH OF A GRAVEL ENTRANCE TO A LAWN, 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 6.45 METERS SOUTH OF THE SOUTHWEST CORNER OF A BRIDGE AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    DAWSEY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on 3 wire from NGS point U 182</p>
---	---

  

<b>AZ Mark Station</b>	190003
<b>Geodetic Azimuth</b>	6 09 34.005028
<b>Grid Azimuth</b>	5 26 39.579959

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190004	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853,110622
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	118,809.4365	0.0020
<b>Easting (M)</b>	512,189.4816	0.0020
<b>Elevation (M)*</b>	80.371	0.0014
<b>Northing (SFT)</b>	389,793.9596	
<b>Easting (SFT)</b>	1,680,408.3242	
<b>Elevation (SFT)*</b>	263.684	

  

<b>Convergence Angle</b>	0	43	7.2763626
<b>Scale Factor</b>	0.999941195		
<b>Elevation Adjust. Factor</b>	0.9999873873		
<b>Combined Adjust. Factor</b>	0.9999285831		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	23	52.4863752
<b>Longitude</b>	90	45	53.7384456
<b>Ellipsoid Height:</b>	53.034		
<b>Grid Northing (Meters)</b>	118,809.4231		
<b>Grid Easting (Meters)</b>	512,189.4540		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	219	14.25	46.8
MK # 2	TELEPHONE JUNCTION BOX	52	21.60	70.9
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> BRINKLEYPORT <b>Ref Mon # 2</b> NEWSPORT <b>Ref Mon # 3</b> DAWSEY	<b>Comments</b>  Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017
--	---

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 0.67 KM (0.42 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1, 18.00 METERS NORTHEAST OF A PAVED ENTERANCE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	190004A
<b>Geodetic Azimuth</b>	43 57 27.092191
<b>Grid Azimuth</b>	43 14 19.792303

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190004A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> 001853, 110622
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	119,296.6223	0.0020	
<b>Easting (M)</b>	512,647.6031	0.0020	
<b>Elevation (M)*</b>	83.123		
<b>Northing (SFT)</b>	391,392.3350		
<b>Easting (SFT)</b>	1,681,911.3445		
<b>Elevation (SFT)*</b>	272.713		

  

<b>Convergence Angle</b>	0	43	17.9817959
<b>Scale Factor</b>	0.999940953		
<b>Elevation Adjust. Factor</b>	0.9999869554		
<b>Combined Adjust. Factor</b>	0.9999279092		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	24	8.1074124
<b>Longitude</b>	90	45	35.3409372
<b>Ellipsoid Height:</b>	55.788		
<b>Grid Northing (Meters)</b>	119,296.6141		
<b>Grid Easting (Meters)</b>	512,647.5780		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	47	30.90	101.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017
<b>Ref Mon # 2</b> <input type="text" value="NEWSPORT"/>	
<b>Ref Mon # 3</b> <input type="text" value="DAWSEY"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 24 8.1076680
<b>Longitude</b>	90 45 35.3399400
<b>Ellipsoid Height (M):</b>	55.725 0.0040
<b>Geoid Height (M):</b>	-27.402

Location Description
<p>THE STATION IS LOCATED IN CHERRY VALLEY, AT THE JUNCTION OF STATE HIGHWAY 1AND STATE HIGHWAY 42. THE STATION IS 12.72 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 11.69 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 42 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	190004
<b>Geodetic Azimuth</b>	223 57 37.74955
<b>Grid Azimuth</b>	223 14 19.79230

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190005	<b>Date Monumented</b> 5/18/1999	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 64	<b>Job Number:</b> 0334,110288,Mobie LiDAR-C
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	104,461.9081
<b>Easting (M)</b>	533,609.7540
<b>Elevation (M)*</b>	65.320
<b>Northing (SFT)</b>	342,722.1102
<b>Easting (SFT)</b>	1,750,684.6679
<b>Elevation (SFT)*</b>	214.304

  

<b>Convergence Angle</b>	0	51	16.2616521
<b>Scale Factor</b>	0.999951276		
<b>Elevation Adjust. Factor</b>	0.9999897493		
<b>Combined Adjust. Factor</b>	0.9999410258		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 64B, LOCATED ON THE EAST SIDE OF PARKIN, GO EAST ON U.S. HIGHWAY 64 FOR 0.45 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	127	4.45	14.6
MK # 2	TELEPHONE JUNCTION BOX	279	28.00	91.9
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="DAWSEY"/></p> <p>Ref Mon # 3 <input type="text" value="MEM 2"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
190005A RESET	9/25/2000	AHTD	CROSS	64	1,110288,Mobie LiDAR-CLS,

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,591.5025	
<b>Easting (M)</b>	533,122.9858	
<b>Elevation (M)*</b>	65.102	
<b>Northing (SFT)</b>	343,147.2878	
<b>Easting (SFT)</b>	1,749,087.6626	
<b>Elevation (SFT)*</b>	213.590	

  

<b>Convergence Angle</b>	0	51	5.1001790
<b>Scale Factor</b>	0.999951157		
<b>Elevation Adjust. Factor</b>	0.9999897834		
<b>Combined Adjust. Factor</b>	0.9999409409		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	16	1.8534972
<b>Longitude</b>	90	32	12.5924532
<b>Ellipsoid Height:</b>	37.861		
<b>Grid Northing (Meters)</b>	104,591.4925		
<b>Grid Easting (Meters)</b>	533,122.9721		

  

Location Description				
<p>THE STATION IS LOCATED ON THE EAST SIDE OF PARKIN AT THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 64B. THE STATION IS 23.31 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64B, 15.35 METERS SOUTH-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190005A RESET 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 503.758. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 901. NOTE THE OLD STATION WAS DESTROYED THIS IS A NEW POINT.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A BRICK SIGN FOR PARKIN	113	21.98	72.1
MK # 2	FIRE HYDRANT	139	18.28	60.0
MK # 3	GUY POLE	148	16.95	55.6

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 213.359(65.032m)
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190006	<b>Date Monumented</b> 3/6/2000	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> R10071, 012240,110574
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	94,430.7554	0.0020
<b>Easting (M)</b>	509,422.1899	0.0020
<b>Elevation (M)*</b>	76.583	

  

<b>Northing (SFT)</b>	309,811.5700	
<b>Easting (SFT)</b>	1,671,329.3014	
<b>Elevation (SFT)*</b>	251.257	

  

<b>Convergence Angle</b>	0	41	56.6053023
<b>Scale Factor</b>	0.999960855		
<b>Elevation Adjust. Factor</b>	0.9999879817		
<b>Combined Adjust. Factor</b>	0.9999488372		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	10	42.5727624
<b>Longitude</b>	90	47	55.1878332
<b>Ellipsoid Height:</b>	49.597		
<b>Grid Northing (Meters)</b>	94,430.7521		
<b>Grid Easting (Meters)</b>	509,422.1520		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	182	25.75	84.5
<b>MK # 2</b>	PUNCH IN TOP OF METAL GUARD RAIL POS	81	6.00	19.7
<b>MK # 3</b>	WEST END OF CMP	104	18.63	61.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BRINKLEYPORT <b>Ref Mon # 2</b> NEWSPORT <b>Ref Mon # 3</b> MEM2	<b>Comments</b> Elevations based on 3 wire from NGS point H 175
---	--

  

Location Description	
TO REACH THE STATION FROM CROSS-ST. FRANCIS COUNTY LINE GO NORTH ON STATE HIGHWAY 1 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF COUNTY ROAD 744 ON THE RIGHT. GO RIGHT, EAST ON COUNTY ROAD 744 FOR 0.32 KM (0.20 MI) TO THE EAST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 23.75 METERS WEST OF THE CENTER OF A PAVED FIELD ENTRANCE, 9.40 METERS EAST OF THE EAST END OF THE BRIDGE OVER BEAR CREEK, 6.33 METERS SOUTH OF THE CENTER OF COUNTY ROAD 744 AND 1.42 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190006 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 600.581 METERS.	

  

<b>AZ Mark Station</b>	190006A
<b>Geodetic Azimuth</b>	272 29 06.05490
<b>Grid Azimuth</b>	271 47 09.51892

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190006A	<b>Date Monumented</b> 3/6/2000	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> R10071, 012240,110574
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	94,449.4636 0.0020
<b>Easting (M)</b>	508,821.9622 0.0020
<b>Elevation (M)*</b>	75.896
<b>Northing (SFT)</b>	309,872.9485
<b>Easting (SFT)</b>	1,669,360.0543
<b>Elevation (SFT)*</b>	249.001

  

<b>Convergence Angle</b>	0 41 42.8072194
<b>Scale Factor</b>	0.999960827
<b>Elevation Adjust. Factor</b>	0.9999880896
<b>Combined Adjust. Factor</b>	0.9999489171

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35 10 43.4170848		
<b>Longitude</b>	90 48 18.9013356		
<b>Ellipsoid Height:</b>	48.909		
<b>Grid Northing (Meters)</b>	94,449.4691		
<b>Grid Easting (Meters)</b>	508,821.8900		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	267	15.85	52.0
MK # 2	EAST END OF CMP	250	7.20	23.6
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    BRINKLEYPORT Ref Mon # 2    NEWSPORT Ref Mon # 3    MEM2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point H 175</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point H 175
Comments			
Elevations based on 3 wire from NGS point H 175			

  

Location Description	
TO REACH THE STATION FROM THE CROSS-ST. FRANCIS COUNTY LINE, GO NORTH ON STATE HIGHWAY 1 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF COUNTY ROAD 652 ON THE LEFT, GO LEFT, WEST ON COUNTY ROAD 652 FOR 0.27 KM (0.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.35 METERS NORTH OF THE CENTER OF COUNTY ROAD 652, 10.40 METERS EAST OF THE CENTER OF A FEILD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 600.581 METERS.	

  

<b>AZ Mark Station</b>	190006
<b>Geodetic Azimuth</b>	92 28 52.392901
<b>Grid Azimuth</b>	91 47 09.518922

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190007	<b>Date Monumented</b> 3/6/2000	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 1	<b>Job Number:</b> R10071
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,598.8231	
<b>Easting (M)</b>	510,430.2820	
<b>Elevation (M)*</b>	80.752	
<b>Northing (SFT)</b>	326,767.1388	
<b>Easting (SFT)</b>	1,674,636.6835	
<b>Elevation (SFT)*</b>	264.935	

  

<b>Convergence Angle</b>	0	42	21.2524469
<b>Scale Factor</b>	0.999955478		
<b>Elevation Adjust. Factor</b>	0.9999873275		
<b>Combined Adjust. Factor</b>	0.9999428060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS LOCATED IN WYNNE AT THE STATE HIGHWAY 1 JUNCTION WITH THE RAILROAD TRACKS. THE STATION IS 30.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 18.75 METERS SOUTH OF THE CENTER OF COGBILL AVE., 7.35 METERS NORTH OF THE NORTH RAIL AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 665.917 METERS.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	67	17.50	57.4
MK # 2	NORTHWEST CORNER OF METAL RAILING	125	9.85	32.3
MK # 3	GUY POLE	290	24.50	80.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/> <b>Ref Mon # 2</b> <input type="text" value="NEWSPORT"/> <b>Ref Mon # 3</b> <input type="text" value="MEM2"/>	Elevations based on 3 wire from NGS point W 15

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190008	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> N/A	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,554.9651	
<b>Easting (M)</b>	492,199.5140	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	333,184.9147	
<b>Easting (SFT)</b>	1,614,824.5722	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	35	22.2165924
<b>Scale Factor</b>	0.999953417		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER WELL	133	7.40	24.3
<b>MK # 2</b>	POWER POLE TO WATER WELL	165	7.60	24.9
<b>MK # 3</b>	COMBINATION POLE	251	15.90	52.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> MEM 2	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 14 40.0237584
<b>Longitude</b>	90 59 12.9476328
<b>Ellipsoid Height (M):</b>	38.867
<b>Geoid Height (M):</b>	-27.134

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.45 MILES TO COUNTY ROAD 521 ( BOECKMAN ROAD ) ON THE RIGHT. TURN RIGHT (SOUTH) ON "BOECKMAN ROAD" AND GO 0.47 MILES TO THE STATION ON THE LEFT NEAR AN IRRIGATION WELL. 15.1 METERS NORTH OF THE CENTER OF A FIELD ROAD TO THE WELL, 9.90 METERS EAST OF THE CENTER OF THE COUNTY ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008 2003" AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	190008A
<b>Geodetic Azimuth</b>	358 54 50
<b>Grid Azimuth</b>	358 19 28

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190008A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,342.2501	
<b>Easting (M)</b>	492,176.4830	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,767.8655	
<b>Easting (SFT)</b>	1,614,749.0113	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	35	21.8729218
<b>Scale Factor</b>	0.999952694		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	20.20	66.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 5.5774908
<b>Longitude</b>	90 59 13.5382344
<b>Ellipsoid Height (M):</b>	38.799
<b>Geoid Height (M):</b>	-27.141

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.40 MILES TO THE STATION ON THE RIGHT. 29.0 METERS WEST OF THE CENTER OF COUNTY ROAD 521, 19.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008A 2003" AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190009	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 193	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,986.5221	
<b>Easting (M)</b>	497,204.2030	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	334,600.7813	
<b>Easting (SFT)</b>	1,631,244.1227	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	17.5117438
<b>Scale Factor</b>	0.999953067		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 SOUTH IN HAMLIN, GO SOUTH ON HWY-193 FOR 0.25 MILES TO THE STATION ON THE LEFT. 16.35 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	37	20.00	65.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: 480016</p> <p>Ref Mon # 3: MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190009A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 193	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,385.8271	
<b>Easting (M)</b>	497,186.5570	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,910.8344	
<b>Easting (SFT)</b>	1,631,186.2291	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	17.2052776
<b>Scale Factor</b>	0.999952703		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	310	5.30	17.4
<b>MK # 2</b>	TELEPHONE PEDESTAL	15	2.80	9.2
<b>MK # 3</b>	WATER METER	100	6.70	22.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 5.2736148
<b>Longitude</b>	90 55 55.3383228
<b>Ellipsoid Height (M):</b>	38.935
<b>Geoid Height (M):</b>	-27.126

Location Description
<p>THE STATION IS LOCATED IN THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-64 AND HWY-193 IN HAMLIN ACROSS HWY-64 FROM THE "HAMLIN TRACTOR AND AUTO PARTS STORE". 31.3 METERS SOUTH OF THE CENTER OF HWY-64, 13.3 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190010	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 64	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,511.0292	
<b>Easting (M)</b>	503,253.8970	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	336,321.6016	
<b>Easting (SFT)</b>	1,651,092.1604	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	36.8948273
<b>Scale Factor</b>	0.999952651		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	288	24.10	79.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: BUTLER	
Ref Mon # 2: 480016	
Ref Mon # 3: MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 7.1340732
<b>Longitude</b>	90 51 55.2803076
<b>Ellipsoid Height (M):</b>	42.197
<b>Geoid Height (M):</b>	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.95 MILES TO THE STATION ON THE LEFT JUST PAST AN IRRIGATION WELL. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 12.8 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190010A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,491.8352	
<b>Easting (M)</b>	502,601.4790	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	336,258.6293	
<b>Easting (SFT)</b>	1,648,951.6857	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	21.8724861
<b>Scale Factor</b>	0.999952661		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	309	4.50	14.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 6.7544568
<b>Longitude</b>	90 52 21.0963648
<b>Ellipsoid Height (M):</b>	42.884
<b>Geoid Height (M):</b>	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.55 MILES TO THE STATION ON THE LEFT NORTHWEST AND ACROSS HWY-64 FROM THE "ROLFE CHAPEL ASSEMBLY OF GOD" CHURCH. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 10.3 METERS WEST OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190011	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> N/A	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,398.5741	
<b>Easting (M)</b>	509,018.3820	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,952.6552	
<b>Easting (SFT)</b>	1,670,004.4749	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	49.5484778
<b>Scale Factor</b>	0.999952815		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE WESTERNMOST ENTRANCE TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 1 HEADQUARTERS IN WYNNE, GO SOUTH ACROSS THE PAVED PARKING LOT FOR 0.15 MILES TO A GRAVEL PARKING LOT, CONTINUE AHEAD ( SOUTH ) ABOUT 290 FEET TO THE PERIMETER FENCE AND THE STATION. 54.1 METERS EAST OF THE SOUTHWEST CORNER OF THE PERIEMETER FENCE, 0.85 METERS NORTH OF THE PERIMETER FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: 480016</p> <p>Ref Mon # 3: MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190011A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,823.8161	
<b>Easting (M)</b>	509,014.0390	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	337,347.8033	
<b>Easting (SFT)</b>	1,669,990.2263	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	49.5676057
<b>Scale Factor</b>	0.999952430		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MARKER	275	21.80	71.5
<b>MK # 2</b>	FENCE CORNER	273	49.20	161.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 15.0692976
<b>Longitude</b>	90 48 7.2806904
<b>Ellipsoid Height (M):</b>	47.273
<b>Geoid Height (M):</b>	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-1 NORTH ON THE WEST SIDE OF WYNNE, GO WEST ON HWY-64 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 57.8 METERS EAST OF A GRAVEL DRIVEWAY, 16.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190012	<b>Date Monumented</b> 6/5/2012	<b>Monumented By</b> AHTD	<b>County</b> Cross	<b>Route</b> 64	<b>Job Number:</b> 110588
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	104,859.7747		
<b>Easting (M)</b>	532,490.4745		
<b>Elevation (M)*</b>	65.383		
<b>Northing (SFT)</b>	344,027.4442		
<b>Easting (SFT)</b>	1,747,012.4984		
<b>Elevation (SFT)*</b>	214.510		

  

<b>Convergence Angle</b>	0	50	50.6303511
<b>Scale Factor</b>	0.999950918		
<b>Elevation Adjust. Factor</b>	0.9999897394		
<b>Combined Adjust. Factor</b>	0.9999406579		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of Headwall	22	2.00	6.6
<b>MK # 2</b>	18" Concrete Pipe	92	6.60	21.7
<b>MK # 3</b>	Light pole	302	18.30	60.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190013	<b>Date Monumented</b> 1/14/2016	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> CR 652	<b>Job Number:</b> 012240,110574
--------------------------	-------------------------------------	------------------------------	------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	94,457.7374	0.0020	
<b>Easting (M)</b>	507,252.8870	0.0020	
<b>Elevation (M)*</b>	71.800	0.0027	
<b>Northing (SFT)</b>	309,900.0935		
<b>Easting (SFT)</b>	1,664,212.1801		
<b>Elevation (SFT)*</b>	235.564		

  

<b>Convergence Angle</b>	0	41	6.7256446
<b>Scale Factor</b>	0.999960797		
<b>Elevation Adjust. Factor</b>	0.9999887324		
<b>Combined Adjust. Factor</b>	0.9999495298		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH FROM THE ST. FRANCIS AND CROSS COUNTY LINE ON HWY 1. GO NORTH ON HWY. 1 FOR 2.1 MILES TO COUNTY ROAD 652. TURN LEFT (WEST) ON COUNTY ROAD 652 AND GO 1.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. NORTH OF A WITNESS POST, 40 FT. WEST OF A GRAVEL FARM ROAD, AND 48.5 FT. NORTH OF THE CENTERLINE OF COUNTY ROAD 652. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "190013 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	270	17.70	58.1	190013A
MK # 2	18" CORRUGATED METAL PIPE	123	9.10	29.9	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190013A	<b>Date Monumented</b> 1/14/2016	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> CR 652	<b>Job Number:</b> 012240,110574
---------------------------	-------------------------------------	------------------------------	------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	95,141.2982	0.0020
<b>Easting (M)</b>	507,259.1170	0.0020
<b>Elevation (M)*</b>	71.182	0.0030
<b>Northing (SFT)</b>	312,142.7425	
<b>Easting (SFT)</b>	1,664,232.6197	
<b>Elevation (SFT)*</b>	233.535	

  

<b>Convergence Angle</b>	0	41	7.0569431
<b>Scale Factor</b>	0.999960047		
<b>Elevation Adjust. Factor</b>	0.9999888294		
<b>Combined Adjust. Factor</b>	0.9999488769		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE ST. FRANCIS AND CROSS COUNTY LINE ON HWY. 1. GO NORTH ON HWY. 1 FOR 2.1 MILES TO COUNTY ROAD 652. TURN LEFT (WEST) ON COUNTY RD. 652 AND GO 1.1 MILES TO A GRAVEL FARM RD. ON THE RIGHT (NORTH). GO NORTH ON THE GRAVEL FARM RD. FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. EAST OF A WITNESS POST, AND 16 FT. WEST OF A GRAVEL FARM RD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "190013A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	271	1.30	4.3	190013
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190014	<b>Date Monumented</b> 5/10/2017	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> CR 210	<b>Job Number:</b> 110622
--------------------------	-------------------------------------	------------------------------	------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	122,541.6839	0.0020	
<b>Easting (M)</b>	512,895.0166	0.0020	
<b>Elevation (M)*</b>	78.006	0.0013	
<b>Northing (SFT)</b>	402,038.8413		
<b>Easting (SFT)</b>	1,682,723.0670		
<b>Elevation (SFT)*</b>	255.925		

  

<b>Convergence Angle</b>	0	43	24.6322745
<b>Scale Factor</b>	0.999939471		
<b>Elevation Adjust. Factor</b>	0.9999877584		
<b>Combined Adjust. Factor</b>	0.9999272302		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station From poinsett and cross county line go south on hwy-1 for 1.1 miles to cross county road 210 go west on county road 210 for 0.25 of a mile to the sta on the right. Stamped 190014 the point is 11ft north of the sign post. 5ft ne of south end of 18in steel pipe.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	sign post		3.35	11.0	
MK # 2	18" steel pipe		0.15	0.5	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARJB"/>	<p>Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.</p>
Ref Mon # 2 <input type="text" value="ARWY"/>	
Ref Mon # 3 <input type="text" value="TN45"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190014A	<b>Date Monumented</b> 5/10/2017	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> CR 210	<b>Job Number:</b> 110622
---------------------------	-------------------------------------	------------------------------	------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	122,539.2260	0.0020	
<b>Easting (M)</b>	512,485.2652	0.0020	
<b>Elevation (M)*</b>	76.826	0.0000	
<b>Northing (SFT)</b>	402,030.7773		
<b>Easting (SFT)</b>	1,681,378.7409		
<b>Elevation (SFT)*</b>	252.055		

  

<b>Convergence Angle</b>	0	43	15.1790718
<b>Scale Factor</b>	0.999939470		
<b>Elevation Adjust. Factor</b>	0.9999879436		
<b>Combined Adjust. Factor</b>	0.9999274143		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	sign post		10.36	34.0
MK # 2	power pole		10.36	34.0
MK # 3	36" cmp		4.27	14.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="ARJB"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ARWY"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="TN45"/>	Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.   

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 25 53.3865360
<b>Longitude</b>	90 45 40.1564520
<b>Ellipsoid Height (M):</b>	49.387 0.0100
<b>Geoid Height (M):</b>	-27.442

Location Description
<p>To reach From poinsett and cross county line go south on hwy-1 for 1.1 miles to cross county road 210 go west on county road 210 for 0.50 miles sta on the right 34ft east of sign post and pp 63ft ne of pp 14ft north of 36in cmp</p>



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190015	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 364	<b>Job Number:</b> RBORNE 2020, 01X237, 1108
--------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	109,738.0114	0.0020			
<b>Easting (M)</b>	508,920.8393	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	360,032.1257				
<b>Easting (SFT)</b>	1,669,684.4536				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	41	49.3586122
<b>Scale Factor</b>	0.999946791		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 1.0 MILE TO THE MARK ON THE RIGHT, NORTHEAST 21' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190015" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	40	5.03	16.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    AROC, ARWY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>STATIC GPS DERIVED ELEV. 246.7459</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190015A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 364	<b>Job Number:</b> RBORNE 2020, 01X237, 1108
---------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	109,448.8868	0.0020
<b>Easting (M)</b>	509,302.6068	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	359,083.5561	
<b>Easting (SFT)</b>	1,670,936.9691	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	58.0717300
<b>Scale Factor</b>	0.999947007		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 0.7 MILES TO THE MARK ON THE RIGHT, NORTHEAST 16.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190015A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    AROC, ARWY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. 252.5579 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190015 WHOSE ELEVATION IS STATIC GPS DERIVED</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190016	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 364	<b>Job Number:</b> RNE 2020, 01X224, 01X234,
--------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	110,750.5480	0.0020
<b>Easting (M)</b>	504,721.1391	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	363,354.0896	
<b>Easting (SFT)</b>	1,655,905.9372	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	12.8862362
<b>Scale Factor</b>	0.999946028		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 3.9 MILES TO THE MARK ON THE RIGHT, NORTH 15.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	190016A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARPB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    AROC, ARWY</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>STATIC GPS DERIVED ELEV. 230.5524</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190016A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 364	<b>Job Number:</b> RNE 2020, 01X224, 01X234,
---------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	110,790.0317	0.0020			
<b>Easting (M)</b>	505,209.2748	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	363,483.6290				
<b>Easting (SFT)</b>	1,657,507.4291				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	40	24.1430599
<b>Scale Factor</b>	0.999946005		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 3.6 MILES TO THE MARK ON THE RIGHT, NORTH 31' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	190016
			Meters	Feet		
MK # 1					<b>Geodetic Azimuth</b> <b>Grid Azimuth</b>	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARPB	ELEV. 228.7634 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190016 WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 2    ARPG	
Ref Mon # 3    AROC, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190017	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 42	<b>Job Number:</b> 110713, AIRBORNE 2020
--------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 114,772.8505	<b>0.0040</b>	<b>Geoid Datum:</b> Geoid18
<b>Easting (M)</b> 523,308.9833	<b>0.0030</b>	<b>Latitude</b> 35 21 36.7633620
<b>Elevation (M)*</b>		<b>Longitude</b> 90 38 35.3100048
<b>Northing (SFT)</b> 376,550.5937		<b>Ellipsoid Height (M):</b> 37.688 0.0180
<b>Easting (SFT)</b> 1,716,889.5560		<b>Geoid Height (M):</b> -27.405 0.0180
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 47 22.3968489	<b>Scale Factor</b> 0.999943538
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 42, IN BIRDEYE, GO EAST ON HIGHWAY 42 3.0 MILES TO THE MARK ON THE RIGHT, SOUTH 37.8' OF THE C/L OF THE HIGHWAY AND 17' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>Location Reference Marks</b>					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	97	23.93	78.5	190017A
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    AROC Ref Mon # 3    ARP, ARWY	<b>Comments</b> STATIC GPS DERIVED ELEV. 213.5599
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190017A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> 42	<b>Job Number:</b> 110713, AIRBORNE 2020
---------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	114,932.3106	0.0040			
<b>Easting (M)</b>	523,731.7184	0.0030			
<b>Elevation (M)*</b>	65.393				
<b>Northing (SFT)</b>	377,073.7557				
<b>Easting (SFT)</b>	1,718,276.4795				
<b>Elevation (SFT)*</b>	214.542				

  

<b>Convergence Angle</b>	0	47	32.1909047
<b>Scale Factor</b>	0.999943444		
<b>Elevation Adjust. Factor</b>	0.9999897379		
<b>Combined Adjust. Factor</b>	0.9999331824		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 42, IN BIRDEYE, GO EAST ON HIGHWAY 42 3.3 MILES TO THE MARK ON THE LEFT, NORTH 31.0' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPG</p> <p>Ref Mon # 2    AROC</p> <p>Ref Mon # 3    ARP, ARWY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM GPS #190017 WHOSE ELEVATION IS STATIC GPS DERIVED</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190018	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> CR 310	<b>Job Number:</b> 110713, AIRBORNE 2020
--------------------------	-------------------------------------	-------------------------------	------------------------	------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	124,632.2277	0.0030
<b>Easting (M)</b>	520,551.1374	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	408,897.5670	
<b>Easting (SFT)</b>	1,707,841.5233	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	21.8984904
<b>Scale Factor</b>	0.999938690		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARPB, ARWY	STATIC GPS DERIVED ELEV. 237.8781

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190018A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> CR 310	<b>Job Number:</b> 110713, AIRBORNE 2020
---------------------------	-------------------------------------	-------------------------------	------------------------	------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	124,630.3934	0.0020	
<b>Easting (M)</b>	521,041.2757	0.0020	
<b>Elevation (M)*</b>	70.744		
<b>Northing (SFT)</b>	408,891.5490		
<b>Easting (SFT)</b>	1,709,449.5854		
<b>Elevation (SFT)*</b>	232.101		

  

<b>Convergence Angle</b>	0	46	33.2072137
<b>Scale Factor</b>	0.999938693		
<b>Elevation Adjust. Factor</b>	0.9999888980		
<b>Combined Adjust. Factor</b>	0.9999275917		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	260	13.02	42.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARPG	ELEV. BASED ON DIGITAL LEVELS FROM GPS #190018 WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 2    AROC	
Ref Mon # 3    ARPB, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190019	<b>Date Monumented</b> 4/6/2021	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> CR 244	<b>Job Number:</b> 110804
--------------------------	------------------------------------	-------------------------------	------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	110,446.3865	0.0030	
<b>Easting (M)</b>	500,699.5860	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	362,356.1864		
<b>Easting (SFT)</b>	1,642,711.8917		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	40.1545265
<b>Scale Factor</b>	0.999946211		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	156	22.07	72.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARPB"/>	
Ref Mon # 2 <input type="text" value="ARPG"/>	
Ref Mon # 3 <input type="text" value="AROC, ARWY"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 19 25.5627120
<b>Longitude</b>	90 53 32.7891336
<b>Ellipsoid Height (M):</b>	41.518 0.0090
<b>Geoid Height (M):</b>	-27.307 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, 13' WEST OF THE C.L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190019A	<b>Date Monumented</b> 4/6/2021	<b>Monumented By</b> ARDOT	<b>County</b> CROSS	<b>Route</b> CR 244	<b>Job Number:</b> 110804
---------------------------	------------------------------------	-------------------------------	------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	109,955.5595	0.0030
<b>Easting (M)</b>	500,709.4042	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	360,745.8648	
<b>Easting (SFT)</b>	1,642,744.1036	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	40.2535159
<b>Scale Factor</b>	0.999946563		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" CMP	292	2.50	8.2
MK # 2	POWER POLE	186	14.72	48.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPB Ref Mon # 2    ARPG Ref Mon # 3    AROC, ARWY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 19 9.6328884
<b>Longitude</b>	90 53 32.6190192
<b>Ellipsoid Height (M):</b>	40.501 0.0090
<b>Geoid Height (M):</b>	-27.301 0.0090

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE LEFT, 22.5' EAST OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190020	<b>Date Monumented</b> 3/12/2021	<b>Monumented By</b> AHTD S5101	<b>County</b> Cross	<b>Route</b> 64	<b>Job Number:</b> 110808
--------------------------	-------------------------------------	------------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	102,334.3323	0.0025			
<b>Easting (M)</b>	512,037.2271	0.0023			
<b>Elevation (M)*</b>	102.028				
<b>Northing (SFT)</b>	335,741.8886				
<b>Easting (SFT)</b>	1,679,908.8026				
<b>Elevation (SFT)*</b>	334.737				

  

<b>Convergence Angle</b>	0	42	59.0151430
<b>Scale Factor</b>	0.999952907		
<b>Elevation Adjust. Factor</b>	0.9999839887		
<b>Combined Adjust. Factor</b>	0.9999368965		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	79	11.90	39.0
<b>MK # 2</b>	SE COR. BRICK SIGN POST (CITY OF WYNN	305	8.80	28.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Comments			
ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.			

  

Location Description
FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 0.7 MILES TO THE STATION ON THE LEFT, 11.3 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 18.3 METERS WEST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.

  

<b>AZ Mark Station</b>	190020A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 190020A	<b>Date Monumented</b> 4/12/2021	<b>Monumented By</b> AHTD S5101	<b>County</b> Cross	<b>Route</b> 64	<b>Job Number:</b> 110808
---------------------------	-------------------------------------	------------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	102,230.3920	0.0026			
<b>Easting (M)</b>	512,449.5706	0.0025			
<b>Elevation (M)*</b>	107.536				
<b>Northing (SFT)</b>	335,400.8778				
<b>Easting (SFT)</b>	1,681,261.6329				
<b>Elevation (SFT)*</b>	352.807				

  

<b>Convergence Angle</b>	0	43	8.4759709
<b>Scale Factor</b>	0.999953007		
<b>Elevation Adjust. Factor</b>	0.9999831244		
<b>Combined Adjust. Factor</b>	0.9999361322		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	309	18.60	61.0
<b>MK # 2</b>	WATER VALVE	123	21.30	69.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Comments			
ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.			

  

Location Description	
FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 1.0 MILES TO THE STATION ON THE LEFT, 14.9 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 32.3 METERS EAST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020A, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.	

  

<b>AZ Mark Station</b>	190020
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200001	<b>Date Monumented</b> 1/6/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 273	<b>Job Number:</b> 7810
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	527,424.5022		
<b>Easting (M)</b>	355,024.8320		
<b>Elevation (M)*</b>	120.567		
<b>Northing (SFT)</b>	1,730,391.8876		
<b>Easting (SFT)</b>	1,164,777.3030		
<b>Elevation (SFT)*</b>	395.560		

  

<b>Convergence Angle</b>	0	16	18.8507259
<b>Scale Factor</b>	0.999925789		
<b>Elevation Adjust. Factor</b>	0.9999810795		
<b>Combined Adjust. Factor</b>	0.9999068699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	101	29.85	97.9
MK # 2	GUY POLE	142	37.00	121.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 WARRPORT	
Ref Mon # 2 TULIP	
Ref Mon # 3 S 197	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 48 52.4975796
<b>Longitude</b>	92 29 8.9137284
<b>Ellipsoid Height (M):</b>	93.793
<b>Geoid Height (M):</b>	-26.774

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 &amp; 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 3.46 KM. (2.15 MI.) TO THE STATION ON THE RIGHT. 15.0 METERS NORTH OF THE CENTER OF HWY-273 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	200001A
<b>Geodetic Azimuth</b>	269 09 19.0642
<b>Grid Azimuth</b>	269 25 37.96743

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200001A	<b>Date Monumented</b> 1/6/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 273	<b>Job Number:</b> 7810
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,416.0221	
<b>Easting (M)</b>	354,176.6800	
<b>Elevation (M)*</b>	108.852	
<b>Northing (SFT)</b>	1,730,364.0658	
<b>Easting (SFT)</b>	1,161,994.6576	
<b>Elevation (SFT)*</b>	357.125	

  

<b>Convergence Angle</b>	0	16	37.3089396
<b>Scale Factor</b>	0.999925797		
<b>Elevation Adjust. Factor</b>	0.9999829179		
<b>Combined Adjust. Factor</b>	0.9999087161		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	95	7.65	25.1
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	112	6.60	21.7
<b>MK # 3</b>	EAST END OF 0.45m METAL PIPE	280	17.55	57.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT	
<b>Ref Mon # 2</b> TULIP	
<b>Ref Mon # 3</b> S 197	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 48 52.0904556
<b>Longitude</b>	92 29 41.8930404
<b>Ellipsoid Height (M):</b>	82.072
<b>Geoid Height (M):</b>	-26.780

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 &amp; 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 4.35 KM. (2.70 MI.) TO THE STATION ON THE LEFT. 21.20 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF HWY-273 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200002	<b>Date Monumented</b> 1/6/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 79	<b>Job Number:</b> 001914,7810,070288,070287
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,312.5251	
<b>Easting (M)</b>	358,387.2290	
<b>Elevation (M)*</b>	88.498	
<b>Northing (SFT)</b>	1,730,024.5094	
<b>Easting (SFT)</b>	1,175,808.7671	
<b>Elevation (SFT)*</b>	290.346	

  

<b>Convergence Angle</b>	0	15	5.6609600
<b>Scale Factor</b>	0.999925848		
<b>Elevation Adjust. Factor</b>	0.9999861120		
<b>Combined Adjust. Factor</b>	0.9999119611		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 &amp; 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTH ON U.S. 167&amp;79 FOR 53.0 METERS TO THE STATION ON THE RIGHT NEAR THE RIGHT OF WAY FENCE. 53.0 METERS NORTH OF THE CENTER OF HWY-79B, 24.10 METERS SOUTHWEST OF THE CENTER OF A PAVED DRIVEWAY, 18.90 METERS SOUTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-167 AND 0.95 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	183	9.40	30.8
MK # 2	Concrete pipe	230	30.20	99.1
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 1	ARCM, IULM,S 197,K 124	
Ref Mon # 2	700014,270005    070003,0700	
Ref Mon # 3	T 83 N 81 070005 LROC UAM	

  

<b>AZ Mark Station</b>	200002A
<b>Geodetic Azimuth</b>	031 31 04
<b>Grid Azimuth</b>	031 46 10

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200002A	<b>Date Monumented</b> 1/6/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 79	<b>Job Number:</b> 001914,7810,070287
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,618.7231	
<b>Easting (M)</b>	358,576.8540	
<b>Elevation (M)*</b>	87.359	
<b>Northing (SFT)</b>	1,731,029.0940	
<b>Easting (SFT)</b>	1,176,430.8952	
<b>Elevation (SFT)*</b>	286.610	

  

<b>Convergence Angle</b>	0	15	1.5631383
<b>Scale Factor</b>	0.999925664		
<b>Elevation Adjust. Factor</b>	0.9999862907		
<b>Combined Adjust. Factor</b>	0.9999119557		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 &amp; 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTHERLY ON U.S. HWY-167&amp;79 FOR 0.41 KM. (0.25 MI.) TO THE "UNITED PENTECOSTAL CHURCH" AND THE STATION ON THE LEFT. 61.7 FEET NORTHWEST OF THE CENTER OF THE SOUTHBOUND LANE OF HWY-167, 60.7 feet SOUTHEAST OF THE ENTRANCE TO THE CHURCH, 57.4 Feet WEST OF THE CENTER OF A PAVED STREET AND 1.65 feet SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 inch CAP STAMPED "200002A 1997" SET ON TOP OF AN IRON ROD 4 feet LONG by 5/8 inch and DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Guy pole	320	27.40	89.9
MK # 2	Southeast end of a 12 inch concrete pipe	351	15.65	51.3
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 1	ARCM, IULM,S 197,K 124	
Ref Mon # 2	700014,270005    070003,0700	
Ref Mon # 3	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200003	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914,RX0028,070288
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,133.7621	
<b>Easting (M)</b>	362,086.4250	
<b>Elevation (M)*</b>	63.062	
<b>Northing (SFT)</b>	1,742,561.3512	
<b>Easting (SFT)</b>	1,187,945.2127	
<b>Elevation (SFT)*</b>	206.895	

  

<b>Convergence Angle</b>	0	13	45.4853370
<b>Scale Factor</b>	0.999923717		
<b>Elevation Adjust. Factor</b>	0.9999901037		
<b>Combined Adjust. Factor</b>	0.9999138214		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 2.31 KM (1.44 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.55 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 8.85 METERS SOUTH OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	287	4.92	16.1
MK # 2	Telephone junction box	354	18.75	61.5
MK # 3	Combination pole	009	19.25	63.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200003A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914,RX0028
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	530,773.2721	
<b>Easting (M)</b>	362,108.1880	
<b>Elevation (M)*</b>	64.645	
<b>Northing (SFT)</b>	1,741,378.6435	
<b>Easting (SFT)</b>	1,188,016.6135	
<b>Elevation (SFT)*</b>	212.089	

  

<b>Convergence Angle</b>	0	13	44.9801082
<b>Scale Factor</b>	0.999923901		
<b>Elevation Adjust. Factor</b>	0.9999898552		
<b>Combined Adjust. Factor</b>	0.9999137570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Guy pole	114	1.00	3.3
<b>MK # 2</b>	Combination pole	173	16.55	54.3
<b>MK # 3</b>	Gas meter	276	29.60	97.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

  

<b>Location Description</b>
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.95 KM (1.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND

  

<b>AZ Mark Station</b>	200003
<b>Geodetic Azimuth</b>	356 18 58
<b>Grid Azimuth</b>	356 32 43

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200004	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> RX0028
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	533,833.1341	
<b>Easting (M)</b>	362,123.1390	
<b>Elevation (M)*</b>	72.360	
<b>Northing (SFT)</b>	1,751,417.5408	
<b>Easting (SFT)</b>	1,188,065.6652	
<b>Elevation (SFT)*</b>	237.401	

  

<b>Convergence Angle</b>	0	13	44.9210297
<b>Scale Factor</b>	0.999922434		
<b>Elevation Adjust. Factor</b>	0.9999886445		
<b>Combined Adjust. Factor</b>	0.9999110794		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 5.07 KM (3.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167, 12.85 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL ENTRANCE TO FPF, 11.15 METERS NORTH-NORTHWEST A GRAVEL DRIVE WAY AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE		348	23.85	78.2
MK # 2	GUY POLE		49	11.20	36.7
MK # 3	GUY POLE		158	5.60	18.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MALEPORT <b>Ref Mon # 2</b> WARRPORT <b>Ref Mon # 3</b> TULIP	ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200004A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> RX0028
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	533,359.0731	
<b>Easting (M)</b>	362,189.4010	
<b>Elevation (M)*</b>	72.910	
<b>Northing (SFT)</b>	1,749,862.2257	
<b>Easting (SFT)</b>	1,188,283.0598	
<b>Elevation (SFT)*</b>	239.206	

  

<b>Convergence Angle</b>	0	13	43.4367052
<b>Scale Factor</b>	0.999922646		
<b>Elevation Adjust. Factor</b>	0.9999885582		
<b>Combined Adjust. Factor</b>	0.9999112051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	1.25	4.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: MALEPORT	ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.
Ref Mon # 2: WARRPORT	
Ref Mon # 3: TULIP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200005	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> RX0028
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	538,589.9771	
<b>Easting (M)</b>	361,107.9390	
<b>Elevation (M)*</b>	63.632	
<b>Northing (SFT)</b>	1,767,023.9499	
<b>Easting (SFT)</b>	1,184,734.9632	
<b>Elevation (SFT)*</b>	208.766	

  

<b>Convergence Angle</b>	0	14	7.4564932
<b>Scale Factor</b>	0.999920612		
<b>Elevation Adjust. Factor</b>	0.9999900142		
<b>Combined Adjust. Factor</b>	0.9999106270		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	315	10.10	33.1
<b>MK # 2</b>	GATE POST	188	28.00	91.9
<b>MK # 3</b>	NORTH END OF 0.50 METER IN DIAMETER IRON ROD	155	24.40	80.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MALEPORT	
<b>Ref Mon # 2</b> WARRPORT	
<b>Ref Mon # 3</b> TULIP	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 54 55.7809416
<b>Longitude</b>	92 25 14.1515004
<b>Ellipsoid Height (M):</b>	36.914
<b>Geoid Height (M):</b>	-26.721

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.93 KM (6.17 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.50 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD TO BARN, 13.70 METERS WEST-SOUTHWEST OF THE CENTER OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200005 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	200005A
<b>Geodetic Azimuth</b>	168 06 35.74379
<b>Grid Azimuth</b>	168 20 43.19683

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200005A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> RX0028
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	538,104.8351	
<b>Easting (M)</b>	361,208.0060	
<b>Elevation (M)*</b>	63.359	
<b>Northing (SFT)</b>	1,765,432.2798	
<b>Easting (SFT)</b>	1,185,063.2664	
<b>Elevation (SFT)*</b>	207.870	

  

<b>Convergence Angle</b>	0	14	5.2327416
<b>Scale Factor</b>	0.999920773		
<b>Elevation Adjust. Factor</b>	0.9999900570		
<b>Combined Adjust. Factor</b>	0.9999108308		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A 0.50 METER IN DIAMETER	145	12.72	41.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	175	27.69	90.9
<b>MK # 3</b>	POWER POLE	251	1.36	4.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> MALEPORT	
<b>Ref Mon # 2</b> WARRPORT	
<b>Ref Mon # 3</b> TULIP	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 54 40.0475844
<b>Longitude</b>	92 25 10.1783208
<b>Ellipsoid Height (M):</b>	36.628
<b>Geoid Height (M):</b>	-26.720

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79 , LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.43 KM (5.86 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.063 METERS NORTHWEST OF THE CENTER OF GRAVEL ROAD, 14.06 METERS WEST-SOUTWEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.36 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDAR 64mm CAP STAMPED "200005A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	200005
<b>Geodetic Azimuth</b>	348 06 37.9606
<b>Grid Azimuth</b>	348 20 43.19683

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200011	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> n/a	<b>Job Number:</b> 001914
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	539,966.3591		
<b>Easting (M)</b>	360,795.6210		
<b>Elevation (M)*</b>	63.676		
<b>Northing (SFT)</b>	1,771,539.6298		
<b>Easting (SFT)</b>	1,183,710.2999		
<b>Elevation (SFT)*</b>	208.910		

  

<b>Convergence Angle</b>	0	14	14.3860404
<b>Scale Factor</b>	0.999920189		
<b>Elevation Adjust. Factor</b>	0.9999900073		
<b>Combined Adjust. Factor</b>	0.9999101971		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 79 and 167 on the north side of Fordyce go north on Hwy-167 for 7.05 miles to a gravel road, "Wells Road" on the left. Turn left on Wells road and go 0.05 miles to the station on the right. 17.6 feet north of the center of the road and 1.65 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "200011 2005" set on top of a 4 foot long by 5/8 inch rebar set just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b>  3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200011A	<b>Date Monumented</b> 9/21/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> NA	<b>Job Number:</b> 001914
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	539,968.7121	
<b>Easting (M)</b>	360,309.7140	
<b>Elevation (M)*</b>	62.971	
<b>Northing (SFT)</b>	1,771,547.3496	
<b>Easting (SFT)</b>	1,182,116.1200	
<b>Elevation (SFT)*</b>	206.599	

  

<b>Convergence Angle</b>	0	14	24.9755664
<b>Scale Factor</b>	0.999920189		
<b>Elevation Adjust. Factor</b>	0.9999901178		
<b>Combined Adjust. Factor</b>	0.9999103076		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
<b>MK # 1</b>	none		
<b>MK # 2</b>			
<b>MK # 3</b>			

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<b>Comments</b> 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
--	---

  

Location Description	
To reach the station from the junction of highways 79 and 167 on the north side of Fordyce go north on Hwy-167 for 7.05 miles to a gravel road, "Wells Road" on the left. Turn left on Wells road and go 0.30 miles to the station on the right. 16.5 feet south of the center of Wells road and 1.65 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "200011A 2005" set on top of a 4 foot long by 5/8 inch rebar set just below the surface.	

  

<b>AZ Mark Station</b>	200011
<b>Geodetic Azimuth</b>	090 02 14
<b>Grid Azimuth</b>	090 16 39

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200012	<b>Date Monumented</b> 9/22/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914, 070291
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	558,260.8589	
<b>Easting (M)</b>	362,266.2820	
<b>Elevation (M)*</b>	56.981	
<b>Northing (SFT)</b>	1,831,560.8346	
<b>Easting (SFT)</b>	1,188,535.2935	
<b>Elevation (SFT)*</b>	186.945	

  

<b>Convergence Angle</b>	0	13	43.9286679
<b>Scale Factor</b>	0.999918988		
<b>Elevation Adjust. Factor</b>	0.9999910579		
<b>Combined Adjust. Factor</b>	0.9999100466		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sign "Farindale Liquor"	355	26.60	87.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    5    34.4002524
<b>Longitude</b>	92    24    32.1143076
<b>Ellipsoid Height (M):</b>	30.970
<b>Geoid Height (M):</b>	-25.996

  

Location Description
The station is located near the southern edge of the junction of highways 167 and 48 at Farindale. 54.13 feet west of the center of Hwy-167, 46.9 feet northeast of the center of Hwy-48 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "200012 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200012A	<b>Date Monumented</b> 9/22/2005	<b>Monumented By</b> AHTD	<b>County</b> Dallas	<b>Route</b> 167	<b>Job Number:</b> 001914
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	557,428.3680	
<b>Easting (M)</b>	362,272.2780	
<b>Elevation (M)*</b>	56.433	
<b>Northing (SFT)</b>	1,828,829.5707	
<b>Easting (SFT)</b>	1,188,554.9654	
<b>Elevation (SFT)*</b>	185.148	

  

<b>Convergence Angle</b>	0	13	43.7251523
<b>Scale Factor</b>	0.999918864		
<b>Elevation Adjust. Factor</b>	0.9999911439		
<b>Combined Adjust. Factor</b>	0.9999100086		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	354	14.75	48.4
MK # 2	Power pole with guy		26.80	87.9
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    5    7.3808484
<b>Longitude</b>	92    24    31.7506860
<b>Ellipsoid Height (M):</b>	30.424
<b>Geoid Height (M):</b>	-25.995

  

Location Description
To reach the station from the southern most intersection of highways 167 and 48 at Farindale go south on Hwy-167 for 0.45 miles to the station on the left. 63.6 feet east of the center of Hwy-167 and 8.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "200012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the ground surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200013	<b>Date Monumented</b> 2/26/2007	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 9	<b>Job Number:</b> 070309
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,110.6990	
<b>Easting (M)</b>	341,814.6620	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,801,540.6850	
<b>Easting (SFT)</b>	1,121,436.9369	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	9.2580601
<b>Scale Factor</b>	0.999918564		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT, NORTH 53.3 FEET OF THE CENTERLINE OF A GATED GRAVEL ROAD, EAST 27.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 32.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE WITH GUY	174	23.59	77.4	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARHP</p> <p>Ref Mon # 2    DQUA, MSCL</p> <p>Ref Mon # 3    N 81</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200013A	<b>Date Monumented</b> 2/26/2007	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 9	<b>Job Number:</b> 070309
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	548,652.5860	
<b>Easting (M)</b>	341,844.3750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,800,037.6926	
<b>Easting (SFT)</b>	1,121,534.4203	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	8.5484553
<b>Scale Factor</b>	0.999918598		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 1.75 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.9 FEET OF A 24 INCH CMP UNDER HIGHWAY 9, EAST 21.2 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 30.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013A 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	113	8.96	29.4	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARHP</p> <p>Ref Mon # 2    DQUA, MSCL</p> <p>Ref Mon # 3    N 81</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200014	<b>Date Monumented</b> 4/3/2017	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 8	<b>Job Number:</b> 070375
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	547,274.0849	0.0020	
<b>Easting (M)</b>	330,601.8093	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,795,515.0602		
<b>Easting (SFT)</b>	1,084,649.4360		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	13.5537724
<b>Scale Factor</b>	0.999918739		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 8, SOUTH OF DELARK, GO EAST ON HIGHWAY 8 9.3 MILES TO THE MARK ON THE RIGHT, 39.3' SOUTHWEST OF THE C/L OF THE HIGHWAY AND 2' NORTHEAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "200014 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	R/W MARKER	33			200014A	
MK # 2		24.38				
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARLR	STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200014A	<b>Date Monumented</b> 4/3/2017	<b>Monumented By</b> AHTD	<b>County</b> DALLAS	<b>Route</b> 8	<b>Job Number:</b> 070375
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	547,118.1901	0.0020	
<b>Easting (M)</b>	330,987.2748	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,795,003.5954		
<b>Easting (SFT)</b>	1,085,914.0841		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	5.1223731
<b>Scale Factor</b>	0.999918757		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 8, SOUTH OF DELARK, GO EAST ON HIGHWAY 8 9.6 MILES TO THE MARK ON THE LEFT, 20' NORTH OF THE C/L OF THE HIGHWAY AND 14.8" SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "200014A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT
Ref Mon # 1	ARCM	
Ref Mon # 2	ARHP	
Ref Mon # 3	ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200015	<b>Date Monumented</b> 12/6/2018	<b>Monumented By</b> ARDOT	<b>County</b> DALLAS	<b>Route</b> 9	<b>Job Number:</b> 070511
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	547,927.2870	0.0020			
<b>Easting (M)</b>	342,254.7331	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,797,658.1074				
<b>Easting (SFT)</b>	1,122,880.7368				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	20	59.5009340		
<b>Scale Factor</b>	0.999918662				
<b>Elevation Adjust. Factor</b>					
<b>Combined Adjust. Factor</b>					

  

SUPERCEDED CONTROL					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9N AND STATE HIGHWAY 8W, IN PRINCETON, GO NORTH ON HIGHWAY 9 1.25 MILES TO THE MARK ON THE RIGHT AND NORTHEAST 23' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "200015 2018" ON TOP OF A 2' FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END OF HEADWALL	110	4.96	16.3	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ARGS"/></p> <p>Ref Mon # 2    <input type="text" value="ARLR"/></p> <p>Ref Mon # 3    <input type="text" value="ARMO"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR &amp; ARMO.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200015A	<b>Date Monumented</b> 12/6/2018	<b>Monumented By</b> ARDOT	<b>County</b> DALLAS	<b>Route</b> 9	<b>Job Number:</b> 070511
---------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	548,331.6088	0.0020			
<b>Easting (M)</b>	342,022.2905	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,798,984.6199				
<b>Easting (SFT)</b>	1,122,118.1314				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	21	4.6247561
<b>Scale Factor</b>	0.999918624		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	45	10.36	34.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.
Ref Mon # 2: ARLR	
Ref Mon # 3: ARMO	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210001	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 20139
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	505,707.0122		
<b>Easting (M)</b>	457,334.9000		
<b>Elevation (M)*</b>	43.415		
<b>Northing (SFT)</b>	1,659,140.4225		
<b>Easting (SFT)</b>	1,500,439.5844		
<b>Elevation (SFT)*</b>	142.437		

  

<b>Convergence Angle</b>	0	20	44.9922403
<b>Scale Factor</b>	0.999944693		
<b>Elevation Adjust. Factor</b>	0.9999931868		
<b>Combined Adjust. Factor</b>	0.9999378802		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	105	37.67	123.6
MK # 2	NBC IN COMBINATION POLE	185	42.05	138.0
MK # 3	NBC IN COMBINATION POLE	253	41.42	135.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CELLPORT	
Ref Mon # 2 DUMAS	
Ref Mon # 3 91090005	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 37 5.4223248
<b>Longitude</b>	91 22 55.5709188
<b>Ellipsoid Height (M):</b>	16.657
<b>Geoid Height (M):</b>	-26.758

Location Description
<p>FROM THE JCT. OF HWY. 4 AND HWY. 65 IN McGEHEE, GO NORTH ON HWY. 65 FOR 0.53 MILES TO THE STATION ON THE RIGHT, THE STATION IS 60 FEET EAST OF THE CENTERLINE OF HWY. 65, 26.80 FEET WEST OF THE CENTERLINE OF HWY. 4 NORTH SPUR AND 1.60 FEET WEST OF A METAL WINESS POST AND SIGN.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210001A	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 20139
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	505,303.6742		
<b>Easting (M)</b>	457,245.7790		
<b>Elevation (M)*</b>	43.047		
<b>Northing (SFT)</b>	1,657,817.1378		
<b>Easting (SFT)</b>	1,500,147.1933		
<b>Elevation (SFT)*</b>	141.230		

  

<b>Convergence Angle</b>	0	20	43.0043009
<b>Scale Factor</b>	0.999945152		
<b>Elevation Adjust. Factor</b>	0.9999932446		
<b>Combined Adjust. Factor</b>	0.9999383969		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 0.27 MILES TO THE STATION ON THE LEFT, THE STATION IS 90.16 FEET WEST OF THE CENTERLINE OF HWY. 65, 52.3 FEET SOUTH OF THE CENTERLINE OF BUSH STREET AND 5.1 FEET NORTH OF A METAL WITNESS POST AND SIGN.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	338	28.95	95.0
<b>MK # 2</b>	NBC IN COMBINATION POLE	101	43.58	143.0
<b>MK # 3</b>	NBC IN POWER SERVICE POLE	125	10.75	35.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    CELLPORT</p> <p><b>Ref Mon # 2</b>    DUMAS</p> <p><b>Ref Mon # 3</b>    91090005</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210002	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 20139
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	510,241.0062	
<b>Easting (M)</b>	454,392.5440	
<b>Elevation (M)*</b>	44.205	
<b>Northing (SFT)</b>	1,674,015.7012	
<b>Easting (SFT)</b>	1,490,786.2048	
<b>Elevation (SFT)*</b>	145.029	

  

<b>Convergence Angle</b>	0	19	41.6662343
<b>Scale Factor</b>	0.999939781		
<b>Elevation Adjust. Factor</b>	0.9999930628		
<b>Combined Adjust. Factor</b>	0.9999328443		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.1 MILES TO THE STATION ON THE RIGHT, THE STATION IS 49.6 FEET EAST OF THE CENTERLINE OF HWY. 65, 19.6 FEET NORTH OF A FIELD ENTRANCE AND 1.75 FEET WEST OF A METAL WITNESS POST AND SIGN.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	CPS IN SHOULDER OF HWY. 65		241	9.43	30.9	
MK # 2	CPS IN SHOULDER OF HWY. 65		290	16.18	53.1	
MK # 3	CPS IN SHOULDER OF HWY. 65		184	15.48	50.8	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	CELLPORT	
Ref Mon # 2	DUMAS	
Ref Mon # 3	91090005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210002A	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 20139
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	510,708.0732		
<b>Easting (M)</b>	454,098.9200		
<b>Elevation (M)*</b>	43.980		
<b>Northing (SFT)</b>	1,675,548.0702		
<b>Easting (SFT)</b>	1,489,822.8734		
<b>Elevation (SFT)*</b>	144.291		

  

<b>Convergence Angle</b>	0	19	35.3452755
<b>Scale Factor</b>	0.999939304		
<b>Elevation Adjust. Factor</b>	0.9999930982		
<b>Combined Adjust. Factor</b>	0.9999324026		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	327	25.08	82.3
MK # 2	NBC IN POWER POLE	346	31.26	102.6
MK # 3	CPS IN SHOULDER OF HWY. 65	188	15.22	49.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NGVD 29		
<b>Geoid Datum:</b>			
<b>Latitude</b>	33	39	48.3647436
<b>Longitude</b>	91	25	0.0092316
<b>Ellipsoid Height (M):</b>	17.239		
<b>Geoid Height (M):</b>	-26.741		

  

Location Description
<p>FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.40 MILES TO THE STATION ON THE RIGHT, THE STATION IS 53.3 FEET EAST OF THE CENTERLINE OF HWY. 65, 18 FEET SOUTH OF A FIELD ENTRANCE AND 1.7 FEET WEST OF A METAL WITNESS POST AND SIGN.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210003	<b>Date Monumented</b> 8/13/1996	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20122,R20093,R20094
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	532,245.9930	
<b>Easting (M)</b>	448,254.5510	
<b>Elevation (M)*</b>	48.320	
<b>Northing (SFT)</b>	1,746,210.3954	
<b>Easting (SFT)</b>	1,470,648.4727	
<b>Elevation (SFT)*</b>	158.530	

  

<b>Convergence Angle</b>	0	17	30.7574019
<b>Scale Factor</b>	0.999923189		
<b>Elevation Adjust. Factor</b>	0.9999924171		
<b>Combined Adjust. Factor</b>	0.9999156067		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	HEAD	80.00	262.5
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1 <b>Ref Mon # 2</b> 210004 <b>Ref Mon # 3</b> 090007	Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 51 28.4700816
<b>Longitude</b>	91 28 42.6105300
<b>Ellipsoid Height (M):</b>	22.370
<b>Geoid Height (M):</b>	-25.952

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO SOUTH ON HWY-65 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE LEFT NEAR THE WEST EDGE OF A GRASS LANDING STRIP. 14.15 METERS EAST OF THE CENTER OF HWY-65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.523 METERS. THIS STATION WAS UPDATED 4/19/00.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210003A	<b>Date Monumented</b> 8/13/1996	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20122,R20093,R20094
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,736.4711	
<b>Easting (M)</b>	448,339.0563	
<b>Elevation (M)*</b>	48.287	
<b>Northing (SFT)</b>	1,744,538.7389	
<b>Easting (SFT)</b>	1,470,925.7205	
<b>Elevation (SFT)*</b>	158.422	

  

<b>Convergence Angle</b>	0	17	32.5408827
<b>Scale Factor</b>	0.999923438		
<b>Elevation Adjust. Factor</b>	0.9999924223		
<b>Combined Adjust. Factor</b>	0.9999158608		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	191	38.57	126.5
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	252	17.08	56.0
<b>MK # 3</b>	ANTENNA POLE	77	51.50	169.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD MON 1	Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.
<b>Ref Mon # 2</b> 210004	
<b>Ref Mon # 3</b> 090007	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 51 11.9180592
<b>Longitude</b>	91 28 39.4239828
<b>Ellipsoid Height (M):</b>	22.338
<b>Geoid Height (M):</b>	-25.953

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO SOUTH ON HWY-65 FOR 3.46 KM (2.15 MI) TO THE STATION IN THE LEFT NEAR THE ENTRANCE TO THE GRASS LANDING STRIP. 15.44 METERS EAST OF THE CENTER OF HWY-65, 8.0 METERS NORTH OF THE GRAVEL ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.523 METERS. THIS STATION WAS UPDATED 4/19/00.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210004	<b>Date Monumented</b> 8/13/1996	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20122,R20092,R20093
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	538,086.0941	
<b>Easting (M)</b>	446,238.7840	
<b>Elevation (M)*</b>	48.780	
<b>Northing (SFT)</b>	1,765,370.7937	
<b>Easting (SFT)</b>	1,464,035.0772	
<b>Elevation (SFT)*</b>	160.039	

  

<b>Convergence Angle</b>	0	16	47.4853273
<b>Scale Factor</b>	0.999920790		
<b>Elevation Adjust. Factor</b>	0.9999923449		
<b>Combined Adjust. Factor</b>	0.9999131355		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	158	16.72	54.9
MK # 2	POWER POLW	308	19.91	65.3
MK # 3	SOUTHEAST END OF CULVERT	330	17.31	56.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="AHTD MON 1"/> <b>Ref Mon # 2</b> <input type="text" value="J 112"/> <b>Ref Mon # 3</b> <input type="text" value="K 124"/>	Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN DUMAS, GO NORTH ON U.S. HIGHWAY 65 FOR 3.45 KM (2.15 MI) TO THE STATION ON THE LEFT JUST SOUTH OF THE JUNCTION OF STATE HIGHWAY 159. THE STATION IS 21.31 METERS EAST OF THE CENTER OF STATE HIGHWAY 159, 14.07 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	
ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING N.O.A.A. BENCH MARK "K 292 1984" ELEVATION = 48.234 METERS.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210004A	<b>Date Monumented</b> 8/13/1996	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20122,R20092,R20093
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,623.1241	
<b>Easting (M)</b>	446,602.3260	
<b>Elevation (M)*</b>	49.186	
<b>Northing (SFT)</b>	1,763,851.8663	
<b>Easting (SFT)</b>	1,465,227.7979	
<b>Elevation (SFT)*</b>	161.371	

  

<b>Convergence Angle</b>	0	16	55.3566707
<b>Scale Factor</b>	0.999920950		
<b>Elevation Adjust. Factor</b>	0.9999922812		
<b>Combined Adjust. Factor</b>	0.9999132318		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST END OF CULVERT	166	6.20	20.3
<b>MK # 2</b>	SOUTHEAST END OF CULVERT	156	18.00	59.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL
<b>Ref Mon # 2</b> J 112	
<b>Ref Mon # 3</b> K 124	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210005	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20094
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,196.0539	
<b>Easting (M)</b>	449,079.9347	
<b>Elevation (M)*</b>	48.973	
<b>Northing (SFT)</b>	1,729,642.3868	
<b>Easting (SFT)</b>	1,473,356.4191	
<b>Elevation (SFT)*</b>	160.672	

  

<b>Convergence Angle</b>	0	17	48.1606091
<b>Scale Factor</b>	0.999925940		
<b>Elevation Adjust. Factor</b>	0.9999923146		
<b>Combined Adjust. Factor</b>	0.9999182552		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 48 44.4214584
<b>Longitude</b>	91 28 11.5161996
<b>Ellipsoid Height (M):</b>	22.987
<b>Geoid Height (M):</b>	-25.969

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.90 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210005A	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20094
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	526,523.9087	
<b>Easting (M)</b>	449,160.3347	
<b>Elevation (M)*</b>	49.406	
<b>Northing (SFT)</b>	1,727,437.1905	
<b>Easting (SFT)</b>	1,473,620.1981	
<b>Elevation (SFT)*</b>	162.093	

  

<b>Convergence Angle</b>	0	17	49.8345062
<b>Scale Factor</b>	0.999926353		
<b>Elevation Adjust. Factor</b>	0.9999922466		
<b>Combined Adjust. Factor</b>	0.9999186002		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 2.86 KM (1.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 6.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	125	3.60	11.8
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    210004</p> <p>Ref Mon # 3    090007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210006	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020238
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,982.8525	
<b>Easting (M)</b>	453,297.8958	
<b>Elevation (M)*</b>	43.867	
<b>Northing (SFT)</b>	1,679,730.4086	
<b>Easting (SFT)</b>	1,487,194.8465	
<b>Elevation (SFT)*</b>	143.920	

  

<b>Convergence Angle</b>	0	19	18.0982060
<b>Scale Factor</b>	0.999938029		
<b>Elevation Adjust. Factor</b>	0.9999931159		
<b>Combined Adjust. Factor</b>	0.9999311453		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 5.13 KM (3.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 1.00 METERS SOUTH OF THE SOUTH CORNER OF A PAVED PARKING LOT OF THE RESIDENT ENGINEERS OFFICE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 601.955 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF A HEADWALL	180	19.50	64.0
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: AHTD MON 1</p> <p>Ref Mon # 2: 210004</p> <p>Ref Mon # 3: 090007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210006A	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020238
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	512,488.0160				
<b>Easting (M)</b>	452,970.6290				
<b>Elevation (M)*</b>	44.016				
<b>Northing (SFT)</b>	1,681,387.7658				
<b>Easting (SFT)</b>	1,486,121.1386				
<b>Elevation (SFT)*</b>	144.409				

  

<b>Convergence Angle</b>	0	19	11.0485010
<b>Scale Factor</b>	0.999937535		
<b>Elevation Adjust. Factor</b>	0.9999930925		
<b>Combined Adjust. Factor</b>	0.9999306279		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 4.52 KM (2.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 601.955 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    210004</p> <p>Ref Mon # 3    090007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210007	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020044,020238
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,103.6154	
<b>Easting (M)</b>	456,254.8226	
<b>Elevation (M)*</b>	42.396	
<b>Northing (SFT)</b>	1,667,003.2782	
<b>Easting (SFT)</b>	1,496,896.0305	
<b>Elevation (SFT)*</b>	139.093	

  

<b>Convergence Angle</b>	0	20	21.8478438
<b>Scale Factor</b>	0.999942036		
<b>Elevation Adjust. Factor</b>	0.9999933468		
<b>Combined Adjust. Factor</b>	0.9999353832		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A HEADWALL	271	14.00	45.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AHTD MON 1	ELEV BY 3 WIRE LOOP
Ref Mon # 2: 210004	
Ref Mon # 3: 090007	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 38 23.4217248
<b>Longitude</b>	91 23 36.9230388
<b>Ellipsoid Height (M):</b>	16.422
<b>Geoid Height (M):</b>	-26.116

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 10.01 KM (6.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.60 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 844.524 METERS.</p>

<b>AZ Mark Station</b>	210007A
<b>Geodetic Azimuth</b>	315 30 38.41491
<b>Grid Azimuth</b>	315 10 16.63245

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
210007A RESET	1/23/2003	AHTD	DESHA	65	020044

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,637.4231	
<b>Easting (M)</b>	455,736.6490	
<b>Elevation (M)*</b>	42.907	
<b>Northing (SFT)</b>	1,668,754.6123	
<b>Easting (SFT)</b>	1,495,195.9893	
<b>Elevation (SFT)*</b>	140.770	
<b>Convergence Angle</b>	0 20	10.6614883
<b>Scale Factor</b>	0.999941462	
<b>Elevation Adjust. Factor</b>	0.9999932666	
<b>Combined Adjust. Factor</b>	0.9999347289	

  

<b>SUPERCEDED CONTROL</b>	<b>Location Description</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>		
<b>Horizontal Datum</b>													
<b>Latitude</b>													
<b>Longitude</b>													
<b>Ellipsoid Height:</b>													
<b>Grid Northing (Meters)</b>													
<b>Grid Easting (Meters)</b>													

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>210009, 210007</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2 CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>VIC1 CORS</td> </tr> </table>	Ref Mon # 1	210009, 210007	Ref Mon # 2	MEM2 CORS	Ref Mon # 3	VIC1 CORS	ELEV BY 3 WIRE LOOP
Ref Mon # 1	210009, 210007						
Ref Mon # 2	MEM2 CORS						
Ref Mon # 3	VIC1 CORS						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210008	<b>Date Monumented</b> 7/24/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 1	<b>Job Number:</b> 020045
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	518,614.0958	
<b>Easting (M)</b>	465,781.9806	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,701,486.4126	
<b>Easting (SFT)</b>	1,528,153.0480	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	23	50.3534380
<b>Scale Factor</b>	0.999932131		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF MAN HOLE COVER	232	13.65	44.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> LAKE	
<b>Ref Mon # 2</b> WINSTON	
<b>Ref Mon # 3</b> 210004	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 44 2.5844460
<b>Longitude</b>	91 17 24.3858516
<b>Ellipsoid Height (M):</b>	14.723
<b>Geoid Height (M):</b>	-26.254

Location Description
<p>THE STATION IS LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEEHEE AT THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4. THE STATION IS 23.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 4, 12.85 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS</p>

<b>AZ Mark Station</b>	210008A
<b>Geodetic Azimuth</b>	95 48 17.078154
<b>Grid Azimuth</b>	95 24 26.677111

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210008A	<b>Date Monumented</b> 7/24/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020045
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	518,560.7847	
<b>Easting (M)</b>	466,345.1771	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,701,311.5078	
<b>Easting (SFT)</b>	1,530,000.8019	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	24	2.5909920
<b>Scale Factor</b>	0.999932178		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO EAST ON STATE HIGHWAY 4 FOR 0.57 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.52 METERS NORTH OF THE CENTER OF STATE HIGHWAY 4 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					210008
MK # 2	NONE					275 48 29.22047
MK # 3	NONE					275 24 26.67711

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 WINSTON	
Ref Mon # 3 210004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210009	<b>Date Monumented</b> 7/24/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 1	<b>Job Number:</b> 020044,020045
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,264.8200	
<b>Easting (M)</b>	462,916.4161	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,690,497.9970	
<b>Easting (SFT)</b>	1,518,751.6085	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	47.5640648
<b>Scale Factor</b>	0.999934996		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTH WEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 19.90 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 9.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL ROAD, 6.98 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>LAKE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WINSTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>210004</td> </tr> </table>	Ref Mon # 1	LAKE	Ref Mon # 2	WINSTON	Ref Mon # 3	210004	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	LAKE						
Ref Mon # 2	WINSTON						
Ref Mon # 3	210004						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210009A	<b>Date Monumented</b> 7/24/2000	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 1	<b>Job Number:</b> 020045
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	514,785.1263	
<b>Easting (M)</b>	463,360.2540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,688,924.2019	
<b>Easting (SFT)</b>	1,520,207.7667	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	57.1415153
<b>Scale Factor</b>	0.999935434		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE RIGHT, GO RIGHT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.25 METERS NORTHEAST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					210009A
MK # 2	NONE					317 36 21.26853
MK # 3	NONE					317 13 24.16834

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 WINSTON	
Ref Mon # 3 210004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
210009A RESET	1/21/2003	AHTD	DESHA	N/A	020044

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	514,782.5281	
<b>Easting (M)</b>	463,345.4400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,688,915.6776	
<b>Easting (SFT)</b>	1,520,159.1644	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	56.8191657
<b>Scale Factor</b>	0.999935436		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT, GO LEFT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.30 METERS SOUTHWEST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210009A RESET 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 210009, 210007</p> <p>Ref Mon # 2: MEM2 CORS</p> <p>Ref Mon # 3: VIC1 CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210011	<b>Date Monumented</b> 5/1/2001	<b>Monumented By</b> ADS	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020044
--------------------------	------------------------------------	-----------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,820.6332	
<b>Easting (M)</b>	457,320.1750	
<b>Elevation (M)*</b>	43.117	
<b>Northing (SFT)</b>	1,669,355.6941	
<b>Easting (SFT)</b>	1,500,391.2741	
<b>Elevation (SFT)*</b>	141.460	

  

<b>Convergence Angle</b>	0	20	45.0806172
<b>Scale Factor</b>	0.999941277		
<b>Elevation Adjust. Factor</b>	0.9999932336		
<b>Combined Adjust. Factor</b>	0.9999345110		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
3" ALUM CAP SET IN CONCRETE STAMPED 210011 SET ON THE EAST SIDE OF HWY. 1 AND NE OF HWY 65 (165) OVERPASS APPROX 0.8 MILE			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BRIDGE MAY ICE SIGN	45	0.00	0.0
MK # 2	SW GATE POST	290	0.00	0.0
MK # 3	NE GATE POST	325	0.00	0.0

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	WINN RM A	ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED. ELEV BY 3 WR LOOP
Ref Mon # 2	BENOIT & E 360	
Ref Mon # 3	HEEHAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210011A	<b>Date Monumented</b> 5/1/2001	<b>Monumented By</b> ADS	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020044
---------------------------	------------------------------------	-----------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	509,344.3101	
<b>Easting (M)</b>	457,690.3050	
<b>Elevation (M)*</b>	42.874	
<b>Northing (SFT)</b>	1,671,073.7907	
<b>Easting (SFT)</b>	1,501,605.6090	
<b>Elevation (SFT)*</b>	140.664	

  

<b>Convergence Angle</b>	0	20	53.1893102
<b>Scale Factor</b>	0.999940729		
<b>Elevation Adjust. Factor</b>	0.9999932717		
<b>Combined Adjust. Factor</b>	0.9999340011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
3" ALUM CAP SET IN CONCRETE STAMPED 210011A SET ON THE EAST SIDE OF HWY. 1 AND NE OF HWY 65 (165) OVERPASS APPROX 1.2 MILE AT CURVEY TO THE EAST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D IN NORTH FACE OF POLE	215	0.00	0.0
MK # 2	R/R CROSSING SIGN	250	0.00	0.0
MK # 3	CENTERLINE OF ROAD	330	0.00	0.0

  

Area Reference Monuments (used for Processing)		<b>Comments</b> ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED. ELEV BY 3 WR LOOP
Ref Mon # 1	WINN RM A	
Ref Mon # 2	BENOIT & E 360	
Ref Mon # 3	HEEHAW	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210040	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 1	<b>Job Number:</b> 020044
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,521.3012	
<b>Easting (M)</b>	459,811.1070	
<b>Elevation (M)*</b>	42.479	
<b>Northing (SFT)</b>	1,678,216.1357	
<b>Easting (SFT)</b>	1,508,563.6069	
<b>Elevation (SFT)*</b>	139.366	

  

<b>Convergence Angle</b>	0	21	39.5556077
<b>Scale Factor</b>	0.999938523		
<b>Elevation Adjust. Factor</b>	0.9999933337		
<b>Combined Adjust. Factor</b>	0.9999318571		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	223	24.05	78.9
MK # 2	CORRIGATED METAL PIPE	235	21.10	69.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 210009, 210007	ELEV BY 3 WR LOOP
<b>Ref Mon # 2</b> MEM2 CORS	
<b>Ref Mon # 3</b> VIC1 CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210040A	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 1	<b>Job Number:</b> 020044
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,988.7882	
<b>Easting (M)</b>	460,189.5760	
<b>Elevation (M)*</b>	42.126	
<b>Northing (SFT)</b>	1,679,749.8826	
<b>Easting (SFT)</b>	1,509,805.3006	
<b>Elevation (SFT)*</b>	138.208	

  

<b>Convergence Angle</b>	0	21	47.8430373
<b>Scale Factor</b>	0.999938064		
<b>Elevation Adjust. Factor</b>	0.9999933891		
<b>Combined Adjust. Factor</b>	0.9999314535		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF CONCRETE HEAD WALL	236	7.65	25.1
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 210009, 210007	ELEV BY 3 WR LOOP
<b>Ref Mon # 2</b> MEM2 CORS	
<b>Ref Mon # 3</b> VIC1 CORS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 40 28.7445360
<b>Longitude</b>	91 21 3.2753268
<b>Ellipsoid Height (M):</b>	15.953
<b>Geoid Height (M):</b>	-26.186

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 1 ON THE NORTH SIDE OF McGEHEE, GO NORTHEAST ON STATE HIGHWAY 1 FOR 3.62 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	210040
<b>Geodetic Azimuth</b>	219 21 23
<b>Grid Azimuth</b>	218 59 35

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210041	<b>Date Monumented</b> 5/31/2005	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20092,020451
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	538,079.3431	
<b>Easting (M)</b>	446,238.9090	
<b>Elevation (M)*</b>	48.784	
<b>Northing (SFT)</b>	1,765,348.6448	
<b>Easting (SFT)</b>	1,464,035.4873	
<b>Elevation (SFT)*</b>	160.052	

  

<b>Convergence Angle</b>	0	16	47.4873321
<b>Scale Factor</b>	0.999920793		
<b>Elevation Adjust. Factor</b>	0.9999923443		
<b>Combined Adjust. Factor</b>	0.9999131379		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 159, NORTH OF DUMAS, GO SOUTH ON HIGHWAY 65 19.25 METERS TO THE STATION MARK ON THE LEFT. THE STATION MARK IS SOUTHWEST 23.10 METERS OF THE CENTERLINE OF HIGHWAY 65 AND NORTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210041 2005" DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	147	10.45	34.3
MK # 2	SOUTHEAST END OF CULVERT	356	5.60	18.4
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="CSAL, G 292"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ZME1"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="K 124"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210041A	<b>Date Monumented</b> 5/31/2005	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20092,020451
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,635.2951	
<b>Easting (M)</b>	446,607.9220	
<b>Elevation (M)*</b>	49.211	
<b>Northing (SFT)</b>	1,763,891.7973	
<b>Easting (SFT)</b>	1,465,246.1574	
<b>Elevation (SFT)*</b>	161.453	

  

<b>Convergence Angle</b>	0	16	55.4798971
<b>Scale Factor</b>	0.999920946		
<b>Elevation Adjust. Factor</b>	0.9999922772		
<b>Combined Adjust. Factor</b>	0.9999132239		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END OF CULVERT	272	3.30	10.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CSAL, G 292	3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292
Ref Mon # 2 ZME1	
Ref Mon # 3 K 124	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210042-1	<b>Date Monumented</b> 2/15/2007	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 138	<b>Job Number:</b> 020465
----------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,856.1931	
<b>Easting (M)</b>	442,882.2820	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,781,020.6935	
<b>Easting (SFT)</b>	1,453,022.9535	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	34.8234274
<b>Scale Factor</b>	0.999919454		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE AHTD RIGHT WAY OF MARKER	272	1.52	5.0
MK # 2	40 INCH PINE	248	24.63	80.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> MSCL <b>Ref Mon # 3</b> 82 V 10 W	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 57 13.6932300
<b>Longitude</b>	91 32 9.7498968
<b>Ellipsoid Height (M):</b>	23.197
<b>Geoid Height (M):</b>	-25.931

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 2.2 MILES TO THE STATION MARK ON THE RIGHT, EAST 43.6 FEET OF THE CENTERLINE OF NEWTON CHAPEL ROAD (GRAVEL), EAST 9.0 FEET OF A HISTORICAL MARKER, AT THE NORTHWEST CORNER OF JEFFERSON CEMETERY, SOUTH 39.5 FEET OF THE CENTERLINE OF HIGHWAY 138 AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	210042A
<b>Geodetic Azimuth</b>	252 24 29
<b>Grid Azimuth</b>	252 05 20

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210042A	<b>Date Monumented</b> 2/15/2007	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 138	<b>Job Number:</b> 020465
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,033.5331	
<b>Easting (M)</b>	452,102.6290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,719,266.6832	
<b>Easting (SFT)</b>	1,483,273.3753	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	53.5660585
<b>Scale Factor</b>	0.999927991		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	6.92	22.7
MK # 2	SOUTHWEST END 18" PLASTIC CULVERT	278	7.38	24.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	
Ref Mon # 2 MSCL	
Ref Mon # 3 82 V 10 W	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 47 1.2484032
<b>Longitude</b>	91 26 14.6562072
<b>Ellipsoid Height (M):</b>	19.768
<b>Geoid Height (M):</b>	-26.023

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST 5.50 FEET OF THE CENTERLINE OF SCOTT CEMETERY ROAD (GRAVEL), SOUTHEAST 50.0 FEET OF THE CENTERLINE OF HIGHWAY 138 AND SOUTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210043	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> N/A	<b>Job Number:</b> 020542
--------------------------	----------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	546,587.5874	
<b>Easting (M)</b>	453,167.8602	
<b>Elevation (M)*</b>	50.634	0.0022
<b>Northing (SFT)</b>	1,793,262.7763	
<b>Easting (SFT)</b>	1,486,768.2213	
<b>Elevation (SFT)*</b>	166.122	

  

<b>Convergence Angle</b>	0	19	19.4995514
<b>Scale Factor</b>	0.999918811		
<b>Elevation Adjust. Factor</b>	0.9999920539		
<b>Combined Adjust. Factor</b>	0.9999108656		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>Go 1.6 miles on highway 1 (from the county line). Turn right on south curve road for 0.9 miles. Turn right on to Clint Warner road. go right for 0.6 miles to the station on the left. The station is a standard alum. Cap set on a 4 foot rebar and stamped 210043, 2012 Lat. 33.59.13 Lon. 91.25.28</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST OF CL 212	105	12.20	40.0	
MK # 2	S.W. OF DBL 36" CMP	50	15.50	50.9	
MK # 3	N.W. OF 24" CPP	135	3.00	9.8	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210043A	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> N/A	<b>Job Number:</b> 020542
---------------------------	----------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	545,945.9620		
<b>Easting (M)</b>	452,459.7128		
<b>Elevation (M)*</b>	50.864	0.0021	
<b>Northing (SFT)</b>	1,791,157.7103		
<b>Easting (SFT)</b>	1,484,444.9077		
<b>Elevation (SFT)*</b>	166.876		

  

<b>Convergence Angle</b>	0	19	3.9787882
<b>Scale Factor</b>	0.999918898		
<b>Elevation Adjust. Factor</b>	0.9999920179		
<b>Combined Adjust. Factor</b>	0.9999109165		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
Go 1.6 miles on highway 1. Turn right on south curve Road for 0.9 miles. Turn right on Clint Warner Road for 0.3 miles to the station on the right. The station is a standard alum. cap set on a 4 foot rebar and stamped 210043A,2012. Lat. 33.5852 Lon. 91.2556			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	S.S.W. of cl 212		205	8.84	29.0
MK # 2	S.W. of well head		58	10.00	32.8
MK # 3	E. of guy pole with dbl wires		307	2.13	7.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	BASED ON NGS POINT :12 AR     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210044	<b>Date Monumented</b> 4/12/2012	<b>Monumented By</b> AHTD	<b>County</b> Desha	<b>Route</b> N/A	<b>Job Number:</b> 020316
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power service pole	340	4.20	13.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	33-38-22 091-21-39
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210044A	<b>Date Monumented</b> 4/12/2012	<b>Monumented By</b> AHTD	<b>County</b> Desha	<b>Route</b> N/A	<b>Job Number:</b> 020316
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>					
<b>Horizontal Datum</b>							
<b>Northing (M)</b>	#Error						
<b>Easting (M)</b>	#Error						
<b>Elevation (M)*</b>							
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;">                     To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.30 miles to the station on the left 26 feet east of the center of the gravel road, 97 feet north of a field entrance and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "210044A 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface                 </td> </tr> </table>		Location Description		To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.30 miles to the station on the left 26 feet east of the center of the gravel road, 97 feet north of a field entrance and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "210044A 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface	
Location Description							
To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.30 miles to the station on the left 26 feet east of the center of the gravel road, 97 feet north of a field entrance and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "210044A 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface							
<b>Easting (SFT)</b>	#Type!						
<b>Elevation (SFT)*</b>							
<b>Convergence Angle</b>	###/### #Error						
<b>Scale Factor</b>	#Error						
<b>Elevation Adjust. Factor</b>							
<b>Combined Adjust. Factor</b>	#Type!						
<b>SUPERCEDED CONTROL</b>							
<b>Horizontal Datum</b>							
<b>Latitude</b>							
<b>Longitude</b>							
<b>Ellipsoid Height:</b>							
<b>Grid Northing (Meters)</b>							
<b>Grid Easting (Meters)</b>							

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power pole	300	14.30	46.9	210044
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <b>Ref Mon # 2</b> <b>Ref Mon # 3</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     33-38-33 091-21-39                 </td> </tr> </table>	Comments	33-38-33 091-21-39
Comments			
33-38-33 091-21-39			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210045	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020572,020590
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	505,687.4318	
<b>Easting (M)</b>	457,335.7266	
<b>Elevation (M)*</b>	43.411	
<b>Northing (SFT)</b>	1,659,076.1825	
<b>Easting (SFT)</b>	1,500,442.2964	
<b>Elevation (SFT)*</b>	142.423	

  

<b>Convergence Angle</b>	0	20	45.0076219
<b>Scale Factor</b>	0.999944715		
<b>Elevation Adjust. Factor</b>	0.9999931875		
<b>Combined Adjust. Factor</b>	0.9999379029		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE TWO TRANSFORMER	72	36.40	119.4
MK # 2	COMBINATION POLE WITH LIGHT	196	17.20	56.4
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	Elevations based on static GPS observations from NGS BM 1 18 42 during job 020572 by crew s5102 in January 2015.

  

Location Description	
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO NORTH ON HWY. 65 FOR 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1 FT. WEST OF A WITNESS POST, 113 FT. NORTH OF THE CENTERLINE OF HWY. 169, AND 64 FT. EAST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	210045A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210045A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020572,020590
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	505,081.2947	
<b>Easting (M)</b>	457,232.7602	
<b>Elevation (M)*</b>	43.582	
<b>Northing (SFT)</b>	1,657,087.5477	
<b>Easting (SFT)</b>	1,500,104.4808	
<b>Elevation (SFT)*</b>	142.986	

  

<b>Convergence Angle</b>	0	20	42.6925335
<b>Scale Factor</b>	0.999945407		
<b>Elevation Adjust. Factor</b>	0.9999931606		
<b>Combined Adjust. Factor</b>	0.9999385680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO NORTH ON HWY. 65 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. EAST OF A WINESS POST, 22 FT. SOUTH OF THE CENTERLINE OF SHERMAN ST., AND 43 FT. WEST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	120	3.90	12.8
MK # 2	TELEPHONE BOX	278	27.00	88.6
MK # 3	O'REILLY AUTO PARTS SIGN	354	20.00	65.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210046	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,022.3132	
<b>Easting (M)</b>	460,728.8786	
<b>Elevation (M)*</b>	43.789	
<b>Northing (SFT)</b>	1,653,613.2059	
<b>Easting (SFT)</b>	1,511,574.6625	
<b>Elevation (SFT)*</b>	143.663	

  

<b>Convergence Angle</b>	0	21	58.4546223
<b>Scale Factor</b>	0.999946665		
<b>Elevation Adjust. Factor</b>	0.9999931282		
<b>Combined Adjust. Factor</b>	0.9999397936		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF 6 FT. CHAINLINK FENCE	355	1.20	3.9
MK # 2	15 IN. STEEL PIPE UNDER GRAVEL DRIVEWAY	109	19.70	64.6
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.</td> </tr> </table>	Comments	Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.
Comments			
Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.			

  

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 2.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. SOUTH OF A WITNESS POST, 77 FT. WEST OF A GRAVEL DRIVEWAY, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

<b>AZ Mark Station</b>	210046A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210046A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,026.5947	
<b>Easting (M)</b>	460,192.2213	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,653,627.2528	
<b>Easting (SFT)</b>	1,509,813.9794	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	46.8044238
<b>Scale Factor</b>	0.999946656		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 2.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. NORTH OF A WITNESS POST, 31 FT. WEST OF THE CENTER OF DELTA COUNTRY CLUB'S PAVED DRIVEWAY, AND 30 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	196	4.80	15.7
MK # 2	CENTER OF CONCRETE HEADWALL	108	30.30	99.4
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  GPS elevation only
Ref Mon # 1	MSB6	
Ref Mon # 2	MSGN	
Ref Mon # 3	RACM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210047	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,428.9116	
<b>Easting (M)</b>	465,086.7608	
<b>Elevation (M)*</b>	42.934	
<b>Northing (SFT)</b>	1,654,947.1875	
<b>Easting (SFT)</b>	1,525,872.1477	
<b>Elevation (SFT)*</b>	140.859	

  

<b>Convergence Angle</b>	0	23	33.1240612
<b>Scale Factor</b>	0.999946222		
<b>Elevation Adjust. Factor</b>	0.9999932623		
<b>Combined Adjust. Factor</b>	0.9999394847		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	300	28.90	94.8
MK # 2	POWER POLE WITH TWO TRANSFORMERS	276	27.30	89.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33    36    22.3161192
<b>Longitude</b>	91    17    55.1695992
<b>Ellipsoid Height (M):</b>	16.571
<b>Geoid Height (M):</b>	-26.374

  

Location Description
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FRO 5.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. NORTH OF A WITNESS POST, 46 FT. WEST OF A GRAVEL DRIVEWAY, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210047 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210047A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,399.5405	
<b>Easting (M)</b>	465,715.7894	
<b>Elevation (M)*</b>	41.101	
<b>Northing (SFT)</b>	1,654,850.8258	
<b>Easting (SFT)</b>	1,527,935.8857	
<b>Elevation (SFT)*</b>	134.847	

  

<b>Convergence Angle</b>	0	23	46.7763012
<b>Scale Factor</b>	0.999946261		
<b>Elevation Adjust. Factor</b>	0.9999935499		
<b>Combined Adjust. Factor</b>	0.9999398113		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 5.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3 FT. NORTH OF A WITNESS POST, 27 FT. WEST OF THE CENTER PPF INC. GRAVEL DRIVEWAY, AND 35.5 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210047A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL GATE POST	128	2.30	7.5
MK # 2	WOODEN SIGN (PPF INC.)	261	3.10	10.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    MSB6 Ref Mon # 2    MSGN Ref Mon # 3    RACM	<b>Comments</b>  Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210048	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	503,747.5383		
<b>Easting (M)</b>	470,223.7279		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,652,711.7152		
<b>Easting (SFT)</b>	1,542,725.6806		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	24.5415044
<b>Scale Factor</b>	0.999947067		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL GATE POST	275	1.50	4.9
<b>MK # 2</b>	METAL GATE POST	195	10.70	35.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MSB6	GPS elevation only
<b>Ref Mon # 2</b> MSGN	
<b>Ref Mon # 3</b> RACM	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33    35    59.0126496
<b>Longitude</b>	91    14    36.0999240
<b>Ellipsoid Height (M):</b>	14.003
<b>Geoid Height (M):</b>	-26.454

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO TEXAS EASTERN RD. GO SOUTH (RIGHT) ON TEXAS EASTERN RD. FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, AND 26 FT. WEST OF THE CENTER OF TEXAS EASTERN RD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210048A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,347.2384	
<b>Easting (M)</b>	470,237.1731	
<b>Elevation (M)*</b>	41.066	
<b>Northing (SFT)</b>	1,654,679.2313	
<b>Easting (SFT)</b>	1,542,769.7921	
<b>Elevation (SFT)*</b>	134.730	

  

<b>Convergence Angle</b>	0	25	24.9296380
<b>Scale Factor</b>	0.999946360		
<b>Elevation Adjust. Factor</b>	0.9999935555		
<b>Combined Adjust. Factor</b>	0.9999399158		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST BRIDGE CORNER	155	5.50	18.0
<b>MK # 2</b>	ELECTRIC METER	88	13.60	44.6
<b>MK # 3</b>	TELEPHONE BOX	329	4.30	14.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	33.3622    91.1755 Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33    36    18.4745268
<b>Longitude</b>	91    14    35.4064452
<b>Ellipsoid Height (M):</b>	14.624
<b>Geoid Height (M):</b>	-26.455

  

Location Description
TO REACH FROM THE JCT. OF HWY 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15 FT. NORTH OF A WITNESS POST, 18 FT. WEST OF THE CENTER OF TEXAS EASTERN RD., AND 55 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210049	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,352.7827	
<b>Easting (M)</b>	473,911.2594	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,654,697.4212	
<b>Easting (SFT)</b>	1,554,823.8569	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	26	44.6960658
<b>Scale Factor</b>	0.999946387		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO SPRAGUE ST. GO SOUTH (RIGHT) ON SPRAGUE ST. FOR 0.3 MILES TO THE TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 6 FT. NORTH OF A WITNESS POST, AND 21 FT. NORTH OF THE CENTER OF THE BIKE ROUTE ON TOP OF THE LEVEE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	METAL POST MARKED 800	84	1.40	4.6	210049A
MK # 2	HISTORICAL MARKER	265	28.70	94.2	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: MSB6 Ref Mon # 2: MSGN Ref Mon # 3: RACM	GPS elevation only

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210049A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 4	<b>Job Number:</b> 020572
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,814.5094	
<b>Easting (M)</b>	473,569.1341	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,656,212.2696	
<b>Easting (SFT)</b>	1,553,701.4008	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	26	37.3460703
<b>Scale Factor</b>	0.999945845		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	155	6.80	22.3
MK # 2	POWER POLE	324	12.10	39.7
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MSB6 <b>Ref Mon # 2</b> MSGN <b>Ref Mon # 3</b> RACM	GPS elevation only

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:** GEOID12A

**Latitude**    33    36    32.8226652

**Longitude**    91    12    26.0199216

**Ellipsoid Height (M):**    14.924

**Geoid Height (M):**    -26.498

  

**Location Description**

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. WEST OF A WITNESS POST, 39 FT. WEST OF THE CENTERLINE OF HWY. 4 EAST, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210050	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020678,020715
--------------------------	--------------------------------------	-------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	511,785.4572	0.0010	
<b>Easting (M)</b>	453,411.8640	0.0010	
<b>Elevation (M)*</b>	44.403		
<b>Northing (SFT)</b>	1,679,082.7875		
<b>Easting (SFT)</b>	1,487,568.7571		
<b>Elevation (SFT)*</b>	145.679		

  

<b>Convergence Angle</b>	0	19	20.5504114
<b>Scale Factor</b>	0.999938224		
<b>Elevation Adjust. Factor</b>	0.9999930318		
<b>Combined Adjust. Factor</b>	0.9999312562		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	16	41.45	136.0
MK # 2	TELEPHONE PEDESTAL	282	44.50	146.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.
Ref Mon # 2    ARMO	
Ref Mon # 3    IULM,ARPB,MSGN	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33    40    23.4611184
<b>Longitude</b>	91    25    26.4432324
<b>Ellipsoid Height (M):</b>	18.276    0.0030
<b>Geoid Height (M):</b>	-26.164    0.0030

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE, TRAVEL NORTH ALONG US HIGHWAY 65, 3.0 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 48 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 35 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "210050 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

<b>AZ Mark Station</b>	210050A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210050A	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> 020678,020715
---------------------------	--------------------------------------	-------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	512,061.4489	0.0010	
<b>Easting (M)</b>	453,236.0742	0.0010	
<b>Elevation (M)*</b>	44.121		
<b>Northing (SFT)</b>	1,679,988.2703		
<b>Easting (SFT)</b>	1,486,992.0201		
<b>Elevation (SFT)*</b>	144.753		

  

<b>Convergence Angle</b>	0	19	16.7645042
<b>Scale Factor</b>	0.999937952		
<b>Elevation Adjust. Factor</b>	0.9999930761		
<b>Combined Adjust. Factor</b>	0.9999310285		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE, TRAVEL NORTH ALONG US HIGHWAY 65, 3.2 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 52 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 32 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "21005A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	15	45.11	148.0
MK # 2	TELEPHONE PEDESTAL	48	34.44	113.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARMO</p> <p>Ref Mon # 3    IULM,ARPB,MSGN</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210051	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
--------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	496,386.0410 0.0020
<b>Easting (M)</b>	460,376.9962 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,628,559.8695	
<b>Easting (SFT)</b>	1,510,420.1950	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	21	49.7625652
<b>Scale Factor</b>	0.999956364		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.45 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 40.4' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	273	17.68	58.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210051A	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
---------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	496,415.0431	0.0020	
<b>Easting (M)</b>	460,725.6465	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,628,655.0206		
<b>Easting (SFT)</b>	1,511,564.0586		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	21	57.3296729
<b>Scale Factor</b>	0.999956328		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	313	8.53	28.0
MK # 2	METER POLE	288	7.32	24.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    32    3.1367760
<b>Longitude</b>	91    20    46.3255440
<b>Ellipsoid Height (M):</b>	14.742    0.0070
<b>Geoid Height (M):</b>	-26.274

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 47' OF THE C/L OF THE HIGHWAY AND 11' WEST OF A FIELD ROAD . THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210052	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
--------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	496,789.2347	0.0020	
<b>Easting (M)</b>	464,753.6399	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,629,882.6808		
<b>Easting (SFT)</b>	1,524,779.2336		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	24.7621453
<b>Scale Factor</b>	0.999955855		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CMP	264	7.01	23.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARPB"/>	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Ref Mon # 2 <input type="text" value="ARMO"/>	
Ref Mon # 3 <input type="text" value="MSGN"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210052A	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
---------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	496,792.2442		
<b>Easting (M)</b>	465,194.0169		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,629,892.5545		
<b>Easting (SFT)</b>	1,526,224.0371		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	34.3158101
<b>Scale Factor</b>	0.999955855		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	278	8.53	28.0
<b>MK # 2</b>	WATER WELL	216	11.58	38.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.</td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Comments			
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 1.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 38' OF THE C/L OF THE HIGHWAY AND 9' EAST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210052A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    32    14.4196800
<b>Longitude</b>	91    17    53.0403000
<b>Ellipsoid Height (M):</b>	16.090
<b>Geoid Height (M):</b>	-26.358

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210053	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
--------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	497,054.1349	
<b>Easting (M)</b>	468,983.0527	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,630,751.7743	
<b>Easting (SFT)</b>	1,538,655.2321	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	24	56.5533813
<b>Scale Factor</b>	0.999955537		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CULVERT	90	25.30	83.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSGN</td> </tr> </table>	Ref Mon # 1	ARPB	Ref Mon # 2	ARMO	Ref Mon # 3	MSGN	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.</td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Ref Mon # 1	ARPB								
Ref Mon # 2	ARMO								
Ref Mon # 3	MSGN								
Comments									
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.									

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 3.95 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 45' OF THE C/L OF THE HIGHWAY AND 100' WEST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210053 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 32 22.0523640
<b>Longitude</b>	91 15 26.1063360
<b>Ellipsoid Height (M):</b>	13.061
<b>Geoid Height (M):</b>	-26.421

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 210053A	<b>Date Monumented</b> 10/9/2018	<b>Monumented By</b> ARDOT	<b>County</b> DESHA	<b>Route</b> 35	<b>Job Number:</b> 020629
---------------------------	-------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	496,991.6281		
<b>Easting (M)</b>	469,389.8281		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,630,546.6999		
<b>Easting (SFT)</b>	1,539,989.7944		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	5.3679656
<b>Scale Factor</b>	0.999955626		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW END OF GUARD RAIL	84	11.58	38.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220001A	<b>Date Monumented</b> 12/17/1992	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> 11,R20108,020462,001873,02
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,056.2002	
<b>Easting (M)</b>	418,475.8326	
<b>Elevation (M)*</b>	81.690	
<b>Northing (SFT)</b>	1,647,162.7168	
<b>Easting (SFT)</b>	1,372,949.4608	
<b>Elevation (SFT)*</b>	268.013	

  

<b>Convergence Angle</b>	0	6	41.0416193
<b>Scale Factor</b>	0.999948811		
<b>Elevation Adjust. Factor</b>	0.9999871803		
<b>Combined Adjust. Factor</b>	0.9999359919		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN CROSS TIE POST	185	5.04	16.5
<b>MK # 2</b>	NBC IN CROSS TIE POST	356	23.35	76.6
<b>MK # 3</b>	CENTER OF TOP OF R/W MARKER	87	35.93	117.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	OLD PN = 92220001A. 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD MON 1"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220002	<b>Date Monumented</b> 12/17/1992	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20108
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	509,971.2721	
<b>Easting (M)</b>	418,293.2810	
<b>Elevation (M)*</b>	87.514	
<b>Northing (SFT)</b>	1,673,130.7485	
<b>Easting (SFT)</b>	1,372,350.5394	
<b>Elevation (SFT)*</b>	287.119	

  

<b>Convergence Angle</b>	0	6	37.4101330
<b>Scale Factor</b>	0.999939916		
<b>Elevation Adjust. Factor</b>	0.9999862664		
<b>Combined Adjust. Factor</b>	0.9999261832		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 425 AND HWY. 4 IN MONTICELLO, GO NORTH ON HWY. 425 FOR 1.95 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47.0 FEET EAST OF THE CENTERLINE OF HWY. 425, 27.0 FEET SOUTHEAST OF THE ENTRANCE TO THE AHTD AREA LOT AND 10 FEET EAST OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		21	46.00	150.9
MK # 2	NBC IN LIGHT POLE		82	26.98	88.5
MK # 3	NBC IN POWER POLE		209	42.68	140.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="CELLPORT"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="DUMAS"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="TARRY"/>	<p>OLD PN = 92220002</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220002A	<b>Date Monumented</b> 12/17/1992	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20108
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	510,198.0331	
<b>Easting (M)</b>	418,274.6640	
<b>Elevation (M)*</b>	88.489	
<b>Northing (SFT)</b>	1,673,874.7136	
<b>Easting (SFT)</b>	1,372,289.4601	
<b>Elevation (SFT)*</b>	290.318	

  

<b>Convergence Angle</b>	0	6	37.0151729
<b>Scale Factor</b>	0.999939683		
<b>Elevation Adjust. Factor</b>	0.9999861134		
<b>Combined Adjust. Factor</b>	0.9999257972		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 24" PINE TREE	167	40.15	131.7
MK # 2	NBC IN POWER POLE	288	30.12	98.8
MK # 3	NBC IN 5" PINE TREE	350	22.53	73.9

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    CELLPORT Ref Mon # 2    DUMAS Ref Mon # 3    TARRY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 92220002A</td> </tr> </table>	Comments	OLD PN = 92220002A
Comments			
OLD PN = 92220002A			

  

Location Description
FROM JCT. OF HWY. 425 AND HWY. 4 IN MONTICELLO, GO NORTH ON HWY. 425 FOR 2.09 MILES TO THE STATION ON THE RIGHT. THE STATION IS 49.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 3.10 FEET WEST OF WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220003	<b>Date Monumented</b> 4/4/1993	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20115,R20125
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 519,372.7851		<b>Latitude</b> 33 44 34.1488104
<b>Easting (M)</b> 416,486.6610		<b>Longitude</b> 91 49 19.4363256
<b>Elevation (M)*</b> 117.418		<b>Ellipsoid Height (M):</b> 90.888
		<b>Geoid Height (M):</b> -26.530

  

<b>Northing (SFT)</b> 1,703,975.5458		<b>Location Description</b>
<b>Easting (SFT)</b> 1,366,423.3203		FROM THE JCT. OF HWY. 425 AND A PAVED COUNTY ROAD IN MONTONGO, GO SOUTH ON HWY. 425 FOR 0.24 MILES TO THE STATION ON THE RIGHT. THE STATION IS 176.0 FEET SOUTH OF A COUNTY ROAD, 37.54 FEET WEST OF THE CENTERLINE OF HWY. 425 AND 2.0 FEET EAST OF A WITNESS POST.
<b>Elevation (SFT)*</b> 385.229		
<b>Convergence Angle</b> 0 5 58.5175229		
<b>Scale Factor</b> 0.999931345		
<b>Elevation Adjust. Factor</b> 0.9999815736		
<b>Combined Adjust. Factor</b> 0.9999129199		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	202	46.57	152.8
<b>MK # 2</b>	USC&GS BENCH MARK W 77 1935	243	60.41	198.2
<b>MK # 3</b>	NBC IN 20" PINE TREE	315	64.71	212.3

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> CELLPORT <b>Ref Mon # 2</b> DUMAS <b>Ref Mon # 3</b> TARRY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220003A	<b>Date Monumented</b> 5/5/1993	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> R20115,R20125
---------------------------	------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	518,836.8462	
<b>Easting (M)</b>	416,800.2440	
<b>Elevation (M)*</b>	103.132	
<b>Northing (SFT)</b>	1,702,217.2196	
<b>Easting (SFT)</b>	1,367,452.1339	
<b>Elevation (SFT)*</b>	338.359	

  

<b>Convergence Angle</b>	0	6	5.3160158
<b>Scale Factor</b>	0.999931776		
<b>Elevation Adjust. Factor</b>	0.9999838155		
<b>Combined Adjust. Factor</b>	0.9999155926		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CROSS TIE POST	337	28.10	92.2
MK # 2	NBC IN 24" OAK TREE	0	26.26	86.2
MK # 3	NBC IN POWER POLE	25	7.53	24.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CELLPORT	
Ref Mon # 2 DUMAS	
Ref Mon # 3 TARRY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220004	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 001800
--------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	506,278.6952	
<b>Easting (M)</b>	405,368.3040	
<b>Elevation (M)*</b>	43.662	
<b>Northing (SFT)</b>	1,661,016.0192	
<b>Easting (SFT)</b>	1,329,945.8440	
<b>Elevation (SFT)*</b>	143.248	

  

<b>Convergence Angle</b>	0	1	56.5778536
<b>Scale Factor</b>	0.999943856		
<b>Elevation Adjust. Factor</b>	0.9999931481		
<b>Combined Adjust. Factor</b>	0.9999370044		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.045 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 3.17 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF NORTHWEST HEADW	3	50.40	165.3
MK # 2	COMBINATION POLE	29	48.69	159.8
MK # 3	COMBINATION POLE	202	44.12	144.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="K 124"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="S 197"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220004A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 001800
---------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	505,853.2612	
<b>Easting (M)</b>	405,120.7600	
<b>Elevation (M)*</b>	42.453	
<b>Northing (SFT)</b>	1,659,620.2411	
<b>Easting (SFT)</b>	1,329,133.6934	
<b>Elevation (SFT)*</b>	139.281	

  

<b>Convergence Angle</b>	0	1	51.1972182
<b>Scale Factor</b>	0.999944333		
<b>Elevation Adjust. Factor</b>	0.9999933378		
<b>Combined Adjust. Factor</b>	0.9999376712		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A 0.45 METER CMP	83	18.51	60.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	123	5.22	17.1
<b>MK # 3</b>	R/R TIE FENCE CORNER POST	209	48.15	158.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="K 124"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="S 197"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 37 15.7411128
<b>Longitude</b>	91 56 41.3238012
<b>Ellipsoid Height (M):</b>	16.760
<b>Geoid Height (M):</b>	-25.693

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.295 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4, 13.260 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD AND 5.20 METERS NORTHWEST OF A POWER POLE AND WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	220004
<b>Geodetic Azimuth</b>	30 13 28.07899
<b>Grid Azimuth</b>	30 11 36.85306

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220005	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 020248,001800
--------------------------	------------------------------------	------------------------------	-----------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,243.7182	
<b>Easting (M)</b>	409,059.9020	
<b>Elevation (M)*</b>	67.534	
<b>Northing (SFT)</b>	1,664,182.0988	
<b>Easting (SFT)</b>	1,342,057.3618	
<b>Elevation (SFT)*</b>	221.568	

  

<b>Convergence Angle</b>	0	3	16.7643853
<b>Scale Factor</b>	0.999942793		
<b>Elevation Adjust. Factor</b>	0.9999894018		
<b>Combined Adjust. Factor</b>	0.9999321954		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	262	34.65	113.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	310	45.73	150.0
<b>MK # 3</b>	WEST END OF A 0.45 METER CMP	61	55.20	181.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="K 124"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="S 197"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 38 0.7783872
<b>Longitude</b>	91 54 8.4408444
<b>Ellipsoid Height (M):</b>	41.765
<b>Geoid Height (M):</b>	-25.665

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.74 KM (1.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.039 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 13.421 METERS SOUTH OF THE CENTER OF U.S. 278 AND STATE HIGHWAY 4 AND 0.500 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	220005A
<b>Geodetic Azimuth</b>	336 37 18.38836
<b>Grid Azimuth</b>	336 34 01.63649

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220005A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 020248,001800
---------------------------	------------------------------------	------------------------------	-----------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,501.1252	
<b>Easting (M)</b>	408,948.3370	
<b>Elevation (M)*</b>	63.451	
<b>Northing (SFT)</b>	1,665,026.6083	
<b>Easting (SFT)</b>	1,341,691.3356	
<b>Elevation (SFT)*</b>	208.172	

  

<b>Convergence Angle</b>	0	3	14.3466666
<b>Scale Factor</b>	0.999942512		
<b>Elevation Adjust. Factor</b>	0.9999900426		
<b>Combined Adjust. Factor</b>	0.9999325551		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.57 KM (1.60 MI) TO THE JUNCTION OF TOWLER ROAD ON THE LEFT, TURN LEFT AND GO NORTH ON TOWLER ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.80 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 4.30 METERS WEST OF THE CENTER OF TOWLER ROAD AND 1.10 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	R/R TIE FENCE CORNER POST	268	1.30	4.3		
MK # 2	TELEPHONE JUNCTION BOX	35	13.00	42.7		
MK # 3	0.20 METER CEDAR TREE	336	24.60	80.7		

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="K 124"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="S 197"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220006	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 001800
--------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,361.9642	
<b>Easting (M)</b>	414,376.6320	
<b>Elevation (M)*</b>	76.906	
<b>Northing (SFT)</b>	1,664,570.0442	
<b>Easting (SFT)</b>	1,359,500.6668	
<b>Elevation (SFT)*</b>	252.316	

  

<b>Convergence Angle</b>	0	5	12.2377124
<b>Scale Factor</b>	0.999942671		
<b>Elevation Adjust. Factor</b>	0.9999879311		
<b>Combined Adjust. Factor</b>	0.9999306028		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 39.200 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.750 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 4.950 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	328	8.89	29.2
<b>MK # 2</b>	FIRE HYDRANT	15	4.39	14.4
<b>MK # 3</b>	WEST END OF A 0.50 METER CMP	98	35.35	116.0

  

<b>AZ Mark Station</b>	220006A
<b>Geodetic Azimuth</b>	89 31 02.61695
<b>Grid Azimuth</b>	89 25 50.31188

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	
<b>Ref Mon # 2</b> <input type="text" value="K 124"/>	
<b>Ref Mon # 3</b> <input type="text" value="S 197"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220006A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 4	<b>Job Number:</b> 001800
---------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,367.9152	
<b>Easting (M)</b>	414,975.5120	
<b>Elevation (M)*</b>	70.587	
<b>Northing (SFT)</b>	1,664,589.5685	
<b>Easting (SFT)</b>	1,361,465.4923	
<b>Elevation (SFT)*</b>	231.584	

  

<b>Convergence Angle</b>	0	5	25.2446206
<b>Scale Factor</b>	0.999942665		
<b>Elevation Adjust. Factor</b>	0.9999889227		
<b>Combined Adjust. Factor</b>	0.9999315884		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER METER	77	4.33	14.2
<b>MK # 2</b>	EAST END OF A 0.40 METER CMP	249	17.81	58.4
<b>MK # 3</b>	COMBINATION POLE	272	52.92	173.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="K 124"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="S 197"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 38 4.5667104
<b>Longitude</b>	91 50 18.8850588
<b>Ellipsoid Height (M):</b>	44.947
<b>Geoid Height (M):</b>	-25.640

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.593 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.108 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	220006
<b>Geodetic Azimuth</b>	269 31 15.48914
<b>Grid Azimuth</b>	269 25 50.31188

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220007	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> 001800, 020475
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	506,621.0679	0.0020	
<b>Easting (M)</b>	418,319.7011	0.0020	
<b>Elevation (M)*</b>	79.494		
<b>Northing (SFT)</b>	1,662,139.2869		
<b>Easting (SFT)</b>	1,372,437.2194		
<b>Elevation (SFT)*</b>	260.806		

  

<b>Convergence Angle</b>	0	6	37.8437103
<b>Scale Factor</b>	0.999943493		
<b>Elevation Adjust. Factor</b>	0.9999875250		
<b>Combined Adjust. Factor</b>	0.9999310187		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	37	40.1346696
<b>Longitude</b>	91	48	9.1724544
<b>Ellipsoid Height:</b>	53.766		
<b>Grid Northing (Meters)</b>	506,621.0692		
<b>Grid Easting (Meters)</b>	418,319.6940		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.20 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.494 METERS EAST OF THE CENTER OF A METAL PIPE SEWER LINE, 11.127 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 10.462 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A VANCANT LOT AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	214	31.63	103.8
MK # 2	CENTER OF MAN HOLE COVER	5	40.18	131.8
MK # 3	COMBINATION POLE	230	27.32	89.6

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARCM (STELL)	<p>UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 &amp; B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *****PREVIOUS ELEV. 79.511m (GEOID HT. -25.635m)*****</p>
Ref Mon # 2    ARMO (K 124)	
Ref Mon # 3    ARPB, MSGN (S 197A)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220007A	<b>Date Monumented</b> 2/5/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> 001800, 020475
---------------------------	------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	506,146.4070	0.0022	
<b>Easting (M)</b>	418,284.8840	0.0020	
<b>Elevation (M)*</b>	83.551		

  

<b>Northing (SFT)</b>	1,660,582.0036		
<b>Easting (SFT)</b>	1,372,322.9903		
<b>Elevation (SFT)*</b>	274.117		

  

<b>Convergence Angle</b>	0	6	37.0677574
<b>Scale Factor</b>	0.999944022		
<b>Elevation Adjust. Factor</b>	0.9999868883		
<b>Combined Adjust. Factor</b>	0.9999309110		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	37	24.7293408
<b>Longitude</b>	91	48	10.5593544
<b>Ellipsoid Height:</b>	57.851		
<b>Grid Northing (Meters)</b>	506,146.3912		
<b>Grid Easting (Meters)</b>	418,284.8640		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.68 KM (0.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.870 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	178	52.23	171.4
<b>MK # 2</b>	MOST EASTERLY WOODEN POST OF A SIG	307	10.98	36.0
<b>MK # 3</b>	NBC IN A 0.62 METER PINE TREE	84	31.90	104.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM (STELL)	UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 & B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *****PREVIOUS ELEV. 83.486m (GEOID HT. -25.635m)*****
<b>Ref Mon # 2</b> ARMO (K 124)	
<b>Ref Mon # 3</b> ARPB, MSGN (S 197)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220008	<b>Date Monumented</b> 2/5/1999	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 35	<b>Job Number:</b> 001930,020282,DDK
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,954.7611	
<b>Easting (M)</b>	408,924.2230	
<b>Elevation (M)*</b>	51.769	
<b>Northing (SFT)</b>	1,692,761.5787	
<b>Easting (SFT)</b>	1,341,612.2216	
<b>Elevation (SFT)*</b>	169.845	

  

<b>Convergence Angle</b>	0	3	13.9956230
<b>Scale Factor</b>	0.999934200		
<b>Elevation Adjust. Factor</b>	0.9999918758		
<b>Combined Adjust. Factor</b>	0.9999260764		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.29 KM (7.64 MI) TO THE STATION ON THE RIGHT. THE STATION IS 41.46 METERS NORTH OF THE CENTER OF A GRAVEL ROAD (STAFFORD ROAD), 17.26 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 0.93 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS BY CREW S5101.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	WEST IN LINE IRON PIPE BRACE POST	120	18.56	60.9	
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	155	51.31	168.3	
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	182	34.42	112.9	

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	K 124	
<b>Ref Mon # 2</b>	S 197	
<b>Ref Mon # 3</b>	AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220008A	<b>Date Monumented</b> 2/5/1999	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 35	<b>Job Number:</b> 001930,020282,DDK
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	516,262.4941	
<b>Easting (M)</b>	408,549.9160	
<b>Elevation (M)*</b>	48.342	
<b>Northing (SFT)</b>	1,693,771.1994	
<b>Easting (SFT)</b>	1,340,384.1827	
<b>Elevation (SFT)*</b>	158.602	

  

<b>Convergence Angle</b>	0	3	5.8649335
<b>Scale Factor</b>	0.999933930		
<b>Elevation Adjust. Factor</b>	0.9999924136		
<b>Combined Adjust. Factor</b>	0.9999263441		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK ON TOP OF METAL GUARD R <small>ALL POST</small>	144	3.45	11.3
<b>MK # 2</b>	PUNCH MARK ON TOP OF METAL GUARD R <small>ALL POST</small>	185	1.70	5.6
<b>MK # 3</b>	PUNCH MARK ON TOP OF METAL GUARD R <small>ALL POST</small>	282	5.88	19.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> S 197	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    42    53.5327092
<b>Longitude</b>	91    54    27.9149076
<b>Ellipsoid Height (M):</b>	22.693
<b>Geoid Height (M):</b>	-25.651

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.78 KM (7.94 MI) TO THE STATION ON THE RIGHT SET ON TOP OF A LEVEE. THE STATION IS 6.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 1.22 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220009	<b>Date Monumented</b> 2/5/1999	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 35	<b>Job Number:</b> 001930,DDK,020282,020286
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,499.7392	
<b>Easting (M)</b>	413,875.5380	
<b>Elevation (M)*</b>	73.431	
<b>Northing (SFT)</b>	1,681,426.2277	
<b>Easting (SFT)</b>	1,357,856.6609	
<b>Elevation (SFT)*</b>	240.915	

  

<b>Convergence Angle</b>	0	5	1.5178716
<b>Scale Factor</b>	0.999937391		
<b>Elevation Adjust. Factor</b>	0.9999884764		
<b>Combined Adjust. Factor</b>	0.9999258681		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 5.87 KM (3.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 35 AND 1.52 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER FENCE POST	118	22.85	75.0
MK # 2	CENTER OF HEADWALL	314	19.15	62.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220009A	<b>Date Monumented</b> 2/5/1999	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 35	<b>Job Number:</b> 001930,DDK,020282,020286
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	512,304.3862
<b>Easting (M)</b>	414,318.4240
<b>Elevation (M)*</b>	82.310
<b>Northing (SFT)</b>	1,680,785.3071
<b>Easting (SFT)</b>	1,359,309.6961
<b>Elevation (SFT)*</b>	270.045

  

<b>Convergence Angle</b>	0	5	11.1354445
<b>Scale Factor</b>	0.999937580		
<b>Elevation Adjust. Factor</b>	0.9999870830		
<b>Combined Adjust. Factor</b>	0.9999246639		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	213	23.66	77.6
MK # 2	TELEPHONE JUNCTION BOX	294	33.21	108.9
MK # 3				

  

<b>AZ Mark Station</b>	220009
<b>Geodetic Azimuth</b>	293 53 18
<b>Grid Azimuth</b>	293 48 07

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 S 197	
Ref Mon # 3 AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220010	<b>Date Monumented</b> 2/23/1998	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 83	<b>Job Number:</b> 020286
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,964.1012	
<b>Easting (M)</b>	420,171.8860	
<b>Elevation (M)*</b>	80.492	
<b>Northing (SFT)</b>	1,679,668.8887	
<b>Easting (SFT)</b>	1,378,513.9293	
<b>Elevation (SFT)*</b>	264.081	

  

<b>Convergence Angle</b>	0	7	18.3135353
<b>Scale Factor</b>	0.999937922		
<b>Elevation Adjust. Factor</b>	0.9999873683		
<b>Combined Adjust. Factor</b>	0.9999252911		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH, ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83 AND THE STATION ON THE EAST SIDE OF STATE HIGHWAY 83. THE STATION IS 25.28 METERS SOUTH OF THE EXTENDED CENTER OF ROSE HILL CUT OFF ROAD, 10.98 METERS EAST OF THE CENTER OF STATE HIGHWAY 83 AND 1.28 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "220010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER VALVE	305	29.48	96.7	
MK # 2	GP	1	28.07	92.1	
MK # 3	GAS METER	6	11.32	37.1	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    E 292</p> <p>Ref Mon # 3    220009</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220010A	<b>Date Monumented</b> 2/23/1999	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 83	<b>Job Number:</b> 020286
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,508.3941	
<b>Easting (M)</b>	420,156.2860	
<b>Elevation (M)*</b>	80.411	
<b>Northing (SFT)</b>	1,681,454.6230	
<b>Easting (SFT)</b>	1,378,462.7483	
<b>Elevation (SFT)*</b>	263.814	

  

<b>Convergence Angle</b>	0	7	17.9996804
<b>Scale Factor</b>	0.999937393		
<b>Elevation Adjust. Factor</b>	0.9999873811		
<b>Combined Adjust. Factor</b>	0.9999247749		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83, GO LEFT, NORTH ON STATE HIGHWAY 83 FOR 0.16 KM (0.10 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD (COUNTY ROAD 83) STRAIGHT AHEAD, CONTINUE NORTH ON COUNTY ROAD 83 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.00 METERS WEST OF THE CENTER OF COUNTY ROAD 83 AND 2.095 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    E 292</p> <p>Ref Mon # 3    220009</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220011	<b>Date Monumented</b> 2/9/2000	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 65	<b>Job Number:</b> R20094
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	523,253.0818	
<b>Easting (M)</b>	449,721.3178	
<b>Elevation (M)*</b>	46.466	
<b>Northing (SFT)</b>	1,716,706.1525	
<b>Easting (SFT)</b>	1,475,460.6901	
<b>Elevation (SFT)*</b>	152.447	

  

<b>Convergence Angle</b>	0	18	1.6692099
<b>Scale Factor</b>	0.999928524		
<b>Elevation Adjust. Factor</b>	0.9999927080		
<b>Combined Adjust. Factor</b>	0.9999212325		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	23	20.80	68.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	
<b>Ref Mon # 2</b> 210004	
<b>Ref Mon # 3</b> 090007	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 46 36.3314568
<b>Longitude</b>	91 27 47.3803668
<b>Ellipsoid Height (M):</b>	20.504
<b>Geoid Height (M):</b>	-25.988

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220019	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> N/A	<b>Job Number:</b> 001930,DDK
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,115.1781	
<b>Easting (M)</b>	410,702.4210	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,680,164.5468	
<b>Easting (SFT)</b>	1,347,446.1929	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	52.5561294
<b>Scale Factor</b>	0.999937759		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35 LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 7.644KM (4.75 MI) TO AVERY ROAD (DREW COUNTY 109) ON THE LEFT, TURN LEFT ON AVERY ROAD FOR 2.961 KM (1.84 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.80 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ROAD, 1.50 METERS NORTHWEST OF A WEBB WIRE FENCE LINE AND 0.70 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220019 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    S 197</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220019A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> N/A	<b>Job Number:</b> 001930,DDK
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,280.7062	
<b>Easting (M)</b>	411,354.3660	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,680,707.6169	
<b>Easting (SFT)</b>	1,349,585.1158	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	6.7267272
<b>Scale Factor</b>	0.999937599		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 7.644 KM (4.75 MI) TO AVERY ROAD (DREW COUNTY 109) ON THE LEFT, TURN LEFT ON AVERY ROAD AND GO 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF A FIELD ENTRANCE, 6.70 METERS NORTH OF A GRAVEL ROAD (AVERY ROAD), AND 0.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE GATE POST	283	4.60	15.1
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	220019
<b>Geodetic Azimuth</b>	255 49 20
<b>Grid Azimuth</b>	255 45 13

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220020	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> N/A	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	521,339.0701	
<b>Easting (M)</b>	408,418.5570	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,710,426.5992	
<b>Easting (SFT)</b>	1,339,953.2158	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	3.1073155
<b>Scale Factor</b>	0.999929820		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 13.985 KM (8.69 MI) TO ROCK SPRINGS ROAD ON THE RIGHT. TURN RIGHT (NORTH) ON ROCK SPRINGS ROAD AND GO NORTHEAST 5.488 KM (3.41 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.85 METERS SOUTH OF THE CENTER OF ROCK SPRINGS ROAD, 1.19 METERS NORTH OF A WEBB WIRE FENCE LINE AND 1.06 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN IN LINE BRACE POST	247	7.00	23.0
MK # 2	WOOD FENCE POST	88	6.50	21.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220020A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> N/A	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	521,331.3511	
<b>Easting (M)</b>	407,997.7770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,710,401.2744	
<b>Easting (SFT)</b>	1,338,572.7067	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	53.9550302
<b>Scale Factor</b>	0.999929825		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE FENCE POST	170	1.85	6.1
MK # 2	CROSS TIE FENCE POST	118	3.07	10.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 45 38.0769012
<b>Longitude</b>	91 54 49.1943456
<b>Ellipsoid Height (M):</b>	42.665
<b>Geoid Height (M):</b>	-25.659

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 13.985 KM (8.69 MI) TO ROCK SPRINGS ROAD ON THE RIGHT. TURN RIGHT (NORTH) ON ROCK SPRINGS ROAD AND GO NORTHEAST 5.069 KM (3.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.90 METERS SOUTH OF THE CENTER OF ROCK SPRINGS ROAD AND 1.42 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220020A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	220020
<b>Geodetic Azimuth</b>	88 59 50
<b>Grid Azimuth</b>	88 56 56

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220021	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 20418,020462,001873, 02067
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	507,646.3811	0.0010	
<b>Easting (M)</b>	428,057.1324	0.0010	
<b>Elevation (M)*</b>	59.257		
<b>Northing (SFT)</b>	1,665,503.1687		
<b>Easting (SFT)</b>	1,404,384.1085		
<b>Elevation (SFT)*</b>	194.412		

  

<b>Convergence Angle</b>	0	10	9.3734879
<b>Scale Factor</b>	0.999942395		
<b>Elevation Adjust. Factor</b>	0.9999907007		
<b>Combined Adjust. Factor</b>	0.9999330963		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	38	12.6435264
<b>Longitude</b>	33	38	12.6435264
<b>Ellipsoid Height:</b>	33.470		
<b>Grid Northing (Meters)</b>	2,009,669.2138		
<b>Grid Easting (Meters)</b>	5,525,812.0831		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST END OF PLASTIC CULVERT	222	5.50	18.0
<b>MK # 2</b>	C/L FARM ACCESS ROAD	248	9.80	32.2
<b>MK # 3</b>	POWER POLE	270	18.90	62.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM (CSAL) <b>Ref Mon # 2</b> ARMO (ZME1) <b>Ref Mon # 3</b> IULM,ARPB,MSGN,(OKOM)	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.2643m, GEOID HT. - 25.676m) *****OLD ELEV. 194.4478 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's        (Q 351)

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220021A	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 20418,020462,001873, 02067
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	507,736.1927	0.0010
<b>Easting (M)</b>	428,762.1954	0.0010
<b>Elevation (M)*</b>	59.127	
<b>Northing (SFT)</b>	1,665,797.8255	
<b>Easting (SFT)</b>	1,406,697.3027	
<b>Elevation (SFT)*</b>	193.986	

  

<b>Convergence Angle</b>	0	10	24.6925831
<b>Scale Factor</b>	0.999942300		
<b>Elevation Adjust. Factor</b>	0.9999907211		
<b>Combined Adjust. Factor</b>	0.9999330217		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	38	15.4903164
<b>Longitude</b>	91	41	23.8612848
<b>Ellipsoid Height:</b>	33.330		
<b>Grid Northing (Meters)</b>	507,736.1992		
<b>Grid Easting (Meters)</b>	428,762.1890		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 6.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220021A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM (CSAL) <b>Ref Mon # 2</b> ARMO (ZME1) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (OKOM)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.1421m, GEOID HT. - 25.682m)            *****OLD            ELEV. 194.0334 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111            BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's        (R 351)         </td> </tr> </table>	Comments	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.1421m, GEOID HT. - 25.682m) *****OLD ELEV. 194.0334 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's        (R 351)
Comments			
3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.1421m, GEOID HT. - 25.682m) *****OLD ELEV. 194.0334 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's        (R 351)			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220022	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 020418
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	509,187.4481	
<b>Easting (M)</b>	434,327.3560	
<b>Elevation (M)*</b>	54.735	
<b>Northing (SFT)</b>	1,670,559.1526	
<b>Easting (SFT)</b>	1,424,955.6671	
<b>Elevation (SFT)*</b>	179.578	

  

<b>Convergence Angle</b>	0	12	25.6765361
<b>Scale Factor</b>	0.999940774		
<b>Elevation Adjust. Factor</b>	0.9999914103		
<b>Combined Adjust. Factor</b>	0.9999321848		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CULVERT	255	5.70	18.7
MK # 2	EAST END OF CULVERT	22	6.30	20.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="CSAL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="ZME1"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="OKOM"/>	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220022A	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 020418
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,814.5922	
<b>Easting (M)</b>	433,914.2700	
<b>Elevation (M)*</b>	56.007	
<b>Northing (SFT)</b>	1,669,335.8746	
<b>Easting (SFT)</b>	1,423,600.4008	
<b>Elevation (SFT)*</b>	183.751	

  

<b>Convergence Angle</b>	0	12	16.6744203
<b>Scale Factor</b>	0.999941165		
<b>Elevation Adjust. Factor</b>	0.9999912107		
<b>Combined Adjust. Factor</b>	0.9999323762		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MILE MARKER	205	11.60	38.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CSAL	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.
Ref Mon # 2 ZME1	
Ref Mon # 3 OKOM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220023	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 020418,020678
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	511,325.4320	0.0010	
<b>Easting (M)</b>	437,313.4766	0.0010	
<b>Elevation (M)*</b>	53.266		
<b>Northing (SFT)</b>	1,677,573.5215		
<b>Easting (SFT)</b>	1,434,752.6311		
<b>Elevation (SFT)*</b>	174.757		

  

<b>Convergence Angle</b>	0	13	30.7244882
<b>Scale Factor</b>	0.999938603		
<b>Elevation Adjust. Factor</b>	0.9999916409		
<b>Combined Adjust. Factor</b>	0.9999302444		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	40	11.0263584
<b>Longitude</b>	91	35	51.4781808
<b>Ellipsoid Height:</b>	27.360		
<b>Grid Northing (Meters)</b>	511,325.4331		
<b>Grid Easting (Meters)</b>	437,313.4620		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	65	11.90	39.0
MK # 2	POWER POLE	61	7.20	23.6
MK # 3	CROSS TIE POST	245	13.20	43.3

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARCM (CSAL)</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO (ZME1)</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM,ARPB,MSGN (OKOM)</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARCM (CSAL)	Ref Mon # 2	ARMO (ZME1)	Ref Mon # 3	IULM,ARPB,MSGN (OKOM)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>                     3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.                      (ELEV . 53.28055m, GEOID HT. -25.793m)                      *****OLD                      ELEV. 174.8046 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111                      BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351)                      ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.                 </td> </tr> </table>	Comments	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 53.28055m, GEOID HT. -25.793m) *****OLD ELEV. 174.8046 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARCM (CSAL)										
Ref Mon # 2	ARMO (ZME1)										
Ref Mon # 3	IULM,ARPB,MSGN (OKOM)										
Comments											
3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 53.28055m, GEOID HT. -25.793m) *****OLD ELEV. 174.8046 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.											

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	33 40 11.0263188
<b>Longitude</b>	91 35 51.4776156
<b>Ellipsoid Height (M):</b>	27.406 0.0030
<b>Geoid Height (M):</b>	-25.873 0.0030

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.1 MILES TO THE STATION MARK ON THE LEFT, NORTH 12.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	220023A
<b>Geodetic Azimuth</b>	67 25 08
<b>Grid Azimuth</b>	67 11 37

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220023A	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 278	<b>Job Number:</b> 020418,020678
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	511,541.3837 0.0010
<b>Easting (M)</b>	437,827.0756 0.0010
<b>Elevation (M)*</b>	52.550
<b>Northing (SFT)</b>	1,678,282.0230
<b>Easting (SFT)</b>	1,436,437.6639
<b>Elevation (SFT)*</b>	172.408

  

<b>Convergence Angle</b>	0 13 41.9022341
<b>Scale Factor</b>	0.999938391
<b>Elevation Adjust. Factor</b>	0.9999917533
<b>Combined Adjust. Factor</b>	0.9999301448

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	40	17.9700492
<b>Longitude</b>	91	35	31.5075120
<b>Ellipsoid Height:</b>	26.642		
<b>Grid Northing (Meters)</b>	511,541.3902		
<b>Grid Easting (Meters)</b>	437,827.0450		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 10.45 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWE POLE	251	23.45	76.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM (CSAL) <b>Ref Mon # 2</b> ARMO (ZME1) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (OKOM)	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 52.56021m, GEOID HT. -25.801m) *****OLD ELEV. 172.4413 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220024	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> CR359	<b>Job Number:</b> 001873,020462,020470
--------------------------	-------------------------------------	------------------------------	-----------------------	-----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	505,393.7502	
<b>Easting (M)</b>	405,675.5480	
<b>Elevation (M)*</b>	48.719	
<b>Northing (SFT)</b>	1,658,112.6621	
<b>Easting (SFT)</b>	1,330,953.8604	
<b>Elevation (SFT)*</b>	159.838	

  

<b>Convergence Angle</b>	0	2	3.2384658
<b>Scale Factor</b>	0.999944854		
<b>Elevation Adjust. Factor</b>	0.9999923545		
<b>Combined Adjust. Factor</b>	0.9999372089		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	gas line test valve	153	5.39	17.7
<b>MK # 2</b>	Telephone riser	44	9.33	30.6
<b>MK # 3</b>	Cable marker	242	12.19	40.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

  

Location Description	
<p>To reach the station from highways 278 and 133 north in Wilmar go south at this intersection on south 7th street for 0.10 miles to Gates ave.. Turn right on Gates ave. and go 0.50 miles to south 12th street. Turn left on south 12th street and go 0.65 miles to the station on the left 15 feet north of the center of a gas line right of way. 8.90 feet east of the center of south 12th street and 31.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024 2006" set on top of a 5/8 inch by 4 foot long rebar and is .060 feet below the surface.</p>	

  

<b>AZ Mark Station</b>	220024A
<b>Geodetic Azimuth</b>	205 24 08
<b>Grid Azimuth</b>	205 22 05

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220024A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> CR359	<b>Job Number:</b> 001873,020462,020470,C2200
---------------------------	-------------------------------------	------------------------------	-----------------------	-----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,942.3421	
<b>Easting (M)</b>	405,461.5130	
<b>Elevation (M)*</b>	46.770	
<b>Northing (SFT)</b>	1,656,631.6674	
<b>Easting (SFT)</b>	1,330,251.6472	
<b>Elevation (SFT)*</b>	153.444	

  

<b>Convergence Angle</b>	0	1	58.5852910
<b>Scale Factor</b>	0.999945371		
<b>Elevation Adjust. Factor</b>	0.9999926604		
<b>Combined Adjust. Factor</b>	0.9999380318		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278, 133 and 7th street in Wilmar go south on 7th street for 0.10 miles to Gates ave., go right on Gates ave. and go 0.50 miles to south 12th street, turn left and go 0.95 miles on south 12th street to the station on the right 100.7 feet north of the center of a power line right of way. 8.0 feet west of the center of the road and 12.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024A 2006" set on top of a 5/8 inch by 4 foot rebar and is 0.70 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Warrport, Warrport Az.</p> <p><b>Ref Mon # 2</b>    ARCM,ARLR, UAM AFRC SIS</p> <p><b>Ref Mon # 3</b>    W 77, T 83, 220013, 220001A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220025	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462,020470
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,713.9911	
<b>Easting (M)</b>	407,750.9390	
<b>Elevation (M)*</b>	49.924	
<b>Northing (SFT)</b>	1,649,320.8191	
<b>Easting (SFT)</b>	1,337,762.8724	
<b>Elevation (SFT)*</b>	163.793	

  

<b>Convergence Angle</b>	0	2	48.2558835
<b>Scale Factor</b>	0.999947995		
<b>Elevation Adjust. Factor</b>	0.9999921653		
<b>Combined Adjust. Factor</b>	0.9999401608		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 133 north, south 7th street and 278 in Wilmar go south on 7th street for 0.90 miles to Drew county road 17 (Dave Knight road), turnleft on CR17 and go 1.20 miles to a "T" intersection. Turn right on CR16 (Sallis Rd.) and go 2.10 miles to the station on the left. 5.50 feet south of the center of the road and 11.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220025 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	92	40.97	134.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b> 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220025A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> CR16	<b>Job Number:</b> 001873,020462,020470
---------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,724.1542	
<b>Easting (M)</b>	408,265.8990	
<b>Elevation (M)*</b>	53.029	
<b>Northing (SFT)</b>	1,649,354.1626	
<b>Easting (SFT)</b>	1,339,452.3703	
<b>Elevation (SFT)*</b>	173.981	

  

<b>Convergence Angle</b>	0	2	59.4347215
<b>Scale Factor</b>	0.999947984		
<b>Elevation Adjust. Factor</b>	0.9999916780		
<b>Combined Adjust. Factor</b>	0.9999396625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 133 north, south 7th street and 278 in Wilmar go south on 7th street for 0.90 miles to Drew county road 17 (Dave Knight road), turnleft on CR17 and go 1.20 miles to a "T" intersection. Turn right on CR16 (Sallis Rd.) and go 1.75 miles to the station on the left. 15.0 feet southeast of the center of the road and 19.0 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220025A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fourteen inch pine tree	232	17.92	58.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	Warrport, Warrport Az.	<p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
<b>Ref Mon # 2</b>	ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b>	W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220026	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873, 020462, 020470
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	500,829.6242	
<b>Easting (M)</b>	413,648.0870	
<b>Elevation (M)*</b>	64.237	
<b>Northing (SFT)</b>	1,643,138.5254	
<b>Easting (SFT)</b>	1,357,110.4321	
<b>Elevation (SFT)*</b>	210.751	

  

<b>Convergence Angle</b>	0	4	56.2111502
<b>Scale Factor</b>	0.999950317		
<b>Elevation Adjust. Factor</b>	0.9999899192		
<b>Combined Adjust. Factor</b>	0.9999402367		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 0.75 miles to the station on the left at sharp curve to the right. 35.60 feet southeast of the center of the road and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220026 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM, ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b> 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83 (ELEV. 64.20795 m). UPDATED ELEV. IN JUNE OF 2012 BASED ON DIGITAL LEVELS BY B&F ENGINEERING BETWEEN & CONSTRAINING GPS POINTS 220013, 220025A, 220024A, & M 319.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220026A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873, 020462,020470
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	500,874.0112	
<b>Easting (M)</b>	413,129.7720	
<b>Elevation (M)*</b>	62.613	
<b>Northing (SFT)</b>	1,643,284.1517	
<b>Easting (SFT)</b>	1,355,409.9270	
<b>Elevation (SFT)*</b>	205.423	

  

<b>Convergence Angle</b>	0	4	44.9632500
<b>Scale Factor</b>	0.999950260		
<b>Elevation Adjust. Factor</b>	0.9999901741		
<b>Combined Adjust. Factor</b>	0.9999404345		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 1.10 miles to the station on the right 26.70 feet north of the center of the road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "220026A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b> 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220027	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,409.9251	
<b>Easting (M)</b>	423,284.6680	
<b>Elevation (M)*</b>	72.971	
<b>Northing (SFT)</b>	1,645,042.3959	
<b>Easting (SFT)</b>	1,388,726.4483	
<b>Elevation (SFT)*</b>	239.407	

  

<b>Convergence Angle</b>	0	8	25.3888078
<b>Scale Factor</b>	0.999949618		
<b>Elevation Adjust. Factor</b>	0.9999885485		
<b>Combined Adjust. Factor</b>	0.9999381671		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Cross tie fence corner	89	11.16	36.6
<b>MK # 2</b>	Fence corner	45	16.46	54.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 34 50.6339616
<b>Longitude</b>	91 44 57.0212304
<b>Ellipsoid Height (M):</b>	47.355
<b>Geoid Height (M):</b>	-25.640

Location Description
<p>To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the left, turn left on Old Troy road and go 3.30 miles to the station on the right. 9.70 feet south of the center of the road and 10.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

<b>AZ Mark Station</b>	220027A
<b>Geodetic Azimuth</b>	272 11 58
<b>Grid Azimuth</b>	272 03 32

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220027A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,423.5682	
<b>Easting (M)</b>	422,905.1780	
<b>Elevation (M)*</b>	73.718	
<b>Northing (SFT)</b>	1,645,087.1567	
<b>Easting (SFT)</b>	1,387,481.4048	
<b>Elevation (SFT)*</b>	241.855	

  

<b>Convergence Angle</b>	0	8	17.1528021
<b>Scale Factor</b>	0.999949600		
<b>Elevation Adjust. Factor</b>	0.9999884314		
<b>Combined Adjust. Factor</b>	0.9999380320		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	236	22.07	72.4
<b>MK # 2</b>	24 inch Post oak tree	253	30.78	101.0
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    34    51.1067352
<b>Longitude</b>	91    45    11.7365112
<b>Ellipsoid Height (M):</b>	48.097
<b>Geoid Height (M):</b>	-25.639

  

Location Description
<p>To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the left, turn left on Old Troy road and go 3.10 miles to the station on the left. 15.40 feet north of the center of the road and 1.5 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220028	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 35	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,287.1492	
<b>Easting (M)</b>	429,898.8370	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,647,920.4220	
<b>Easting (SFT)</b>	1,410,426.4344	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	49.0070161
<b>Scale Factor</b>	0.999948565		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE corner of a church	192	34.65	113.7
<b>MK # 2</b>	Light pole	240	16.64	54.6
<b>MK # 3</b>	SW corner of telephone riser	137	12.89	42.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    35    18.5068680
<b>Longitude</b>	91    40    40.4184108
<b>Ellipsoid Height (M):</b>	29.131
<b>Geoid Height (M):</b>	-25.685

Location Description
<p>To reach the station from the junction of highways 278 and 35 east of Monticello go southeast on hwy-35 for 5.50 miles to the station on the right in front of the Enon baptist church. 33.30 feet southwest of the center of hwy-35, 74.10 feet northwest of the center of a driveway to the church and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "220028 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220028A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 35	<b>Job Number:</b> 001873,020462
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,810.4352	
<b>Easting (M)</b>	430,359.6660	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,646,356.4028	
<b>Easting (SFT)</b>	1,411,938.3375	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	58.9769947
<b>Scale Factor</b>	0.999949149		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 35, east of Monticello go southeast on hwy-35 for 5.90 miles to the station on the left. 40.60 feet northeast of the center of hwy-35 and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with transformer	128	24.63	80.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220029	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> CR49	<b>Job Number:</b> 001873,020462
--------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,724.6861	
<b>Easting (M)</b>	428,048.8540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,639,513.4076	
<b>Easting (SFT)</b>	1,404,356.9485	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	8.6859684
<b>Scale Factor</b>	0.999951754		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.35 miles to the station on the right. 24.70 feet west of the center of CR49, 182.0 feet south of a east-west treeline and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220029A	<b>Date Monumented</b> 9/20/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> CR49	<b>Job Number:</b> 001873,020462
---------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,103.3021	
<b>Easting (M)</b>	428,047.4800	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,637,474.7503	
<b>Easting (SFT)</b>	1,404,352.4406	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	8.6163641
<b>Scale Factor</b>	0.999952553		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North gate post	207	6.70	22.0
<b>MK # 2</b>	Power pole with guy wire	88	16.95	55.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33   33   35.3461320
<b>Longitude</b>	91   41   52.5844356
<b>Ellipsoid Height (M):</b>	34.486
<b>Geoid Height (M):</b>	-25.666

Location Description
<p>To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.70 miles to the station on the right. 33.20 feet west of the center of CR49, 32.20 feet north of a gravel drive and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

<b>AZ Mark Station</b>	220029
<b>Geodetic Azimuth</b>	0 17 45
<b>Grid Azimuth</b>	0 07 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220030	<b>Date Monumented</b> 9/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462,020678
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	511,483.9032	0.0010	
<b>Easting (M)</b>	433,730.6154	0.0010	
<b>Elevation (M)*</b>	56.845		
<b>Northing (SFT)</b>	1,678,093.4391		
<b>Easting (SFT)</b>	1,422,997.8607		
<b>Elevation (SFT)*</b>	186.499		

  

<b>Convergence Angle</b>	0	12	12.8911868
<b>Scale Factor</b>	0.999938432		
<b>Elevation Adjust. Factor</b>	0.9999910793		
<b>Combined Adjust. Factor</b>	0.9999295118		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	40	16.6052352
<b>Longitude</b>	91	38	10.5432180
<b>Ellipsoid Height:</b>	31.137		
<b>Grid Northing (Meters)</b>	511,483.9031		
<b>Grid Easting (Meters)</b>	433,730.5960		

  

Location Description			
<p>To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left. Continue straight ahead for 0.30 miles to the station 6.00 feet east of the center of the road and 26.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220030 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East gate post	168	31.09	102.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM (Warrport, Warrport Az.) <b>Ref Mon # 2</b> ARMO (ARCM,ARLR, UAM A) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (W 77, T 8)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           OLD GEOID HT. -25.744m            *****ELEV.            ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS            FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG            HWY. 278. THE BM USED WAS U 351.         </td> </tr> </table>	Comments	OLD GEOID HT. -25.744m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.
Comments			
OLD GEOID HT. -25.744m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220030A	<b>Date Monumented</b> 9/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462,020678
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	512,071.3222 0.0010
<b>Easting (M)</b>	433,712.6026 0.0010
<b>Elevation (M)*</b>	57.505
<b>Northing (SFT)</b>	1,680,020.6629
<b>Easting (SFT)</b>	1,422,938.7637
<b>Elevation (SFT)*</b>	188.664

  

<b>Convergence Angle</b>	0 12 12.5451421
<b>Scale Factor</b>	0.999937855
<b>Elevation Adjust. Factor</b>	0.9999909757
<b>Combined Adjust. Factor</b>	0.9999288313

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	40	35.6739780
<b>Longitude</b>	91	38	11.1612372
<b>Ellipsoid Height:</b>	31.793		
<b>Grid Northing (Meters)</b>	512,071.3172		
<b>Grid Easting (Meters)</b>	433,712.5900		

  

Location Description			
<p>To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left and the station mark in the middle of the intersection. 12.30 feet east of the center of the main road and 39.7 feet northwest of a witness post The station mark is a 2 1/2 inch cap stamped "220030A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM (Warrport, Warrport Az.) <b>Ref Mon # 2</b> ARMO (ARCM,ARLR, UAM A) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (W 77, T 8)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>                     OLD GEOID HT. -25.746m                      *****ELEV.                      ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS                      FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG                      HWY. 278. THE BM USED WAS U 351.                 </td> </tr> </table>	Comments	OLD GEOID HT. -25.746m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.
Comments			
OLD GEOID HT. -25.746m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220031	<b>Date Monumented</b> 9/28/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462, 020678
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	510,454.8123	0.0010	
<b>Easting (M)</b>	431,405.3129	0.0010	
<b>Elevation (M)*</b>	56.854		
<b>Northing (SFT)</b>	1,674,717.1634		
<b>Easting (SFT)</b>	1,415,368.9307		
<b>Elevation (SFT)*</b>	186.527		

  

<b>Convergence Angle</b>	0	11	22.2939602
<b>Scale Factor</b>	0.999939457		
<b>Elevation Adjust. Factor</b>	0.9999910779		
<b>Combined Adjust. Factor</b>	0.9999305354		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	39	43.4610972
<b>Longitude</b>	91	39	40.9448988
<b>Ellipsoid Height:</b>	31.170		
<b>Grid Northing (Meters)</b>	510,454.8081		
<b>Grid Easting (Meters)</b>	431,405.3050		

  

Location Description			
<p>To reach the station from the junction of highways 278 and 355 on the east side of Monticello go east on hwy-278 for 5.10 miles to a gated gravel road on the left. Turn left through the gate and go 1.80 miles to the end of the road and the station. 2.20 feet west of the center of the road and 38.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220031 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM (Warrport, Warrport Az.) <b>Ref Mon # 2</b> ARMO (ARCM,ARLR, UAM A) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (W 77, T 8)	OLD GEOID HT. -25.714m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220031A	<b>Date Monumented</b> 9/28/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> NA	<b>Job Number:</b> 001873,020462,020678
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	509,982.9149	0.0010	
<b>Easting (M)</b>	431,449.4753	0.0010	
<b>Elevation (M)*</b>	54.322		
<b>Northing (SFT)</b>	1,673,168.9466		
<b>Easting (SFT)</b>	1,415,513.8202		
<b>Elevation (SFT)*</b>	178.222		

  

<b>Convergence Angle</b>	0	11	23.2194418
<b>Scale Factor</b>	0.999939939		
<b>Elevation Adjust. Factor</b>	0.9999914751		
<b>Combined Adjust. Factor</b>	0.9999314147		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	39	28.1395800
<b>Longitude</b>	91	39	39.2918580
<b>Ellipsoid Height:</b>	28.630		
<b>Grid Northing (Meters)</b>	509,982.9231		
<b>Grid Easting (Meters)</b>	431,449.4540		

  

Location Description			
<p>To reach the station from the junction of highways 278 and 355 on the east side of Monticello go east on hwy-278 for 5.10 miles to a gated road on the left. Turn left through the gate and go 1.50 miles to the station on the right near the edge of the road. 140.0 feet north of a 24 inch culvert under the road, 7.60 feet east of the center of the road and 21.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220031A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM (Warrport, Warrport Az.) <b>Ref Mon # 2</b> ARMO (ARCM,ARLR, UAM A) <b>Ref Mon # 3</b> IULM,ARPB,MSGN (W 77, T 8)	<b>Comments</b> OLD GEOID HT. -25.713m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220032	<b>Date Monumented</b> 3/5/2007	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 278	<b>Job Number:</b> 01873, 020462,020470,C2200
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,232.1362	
<b>Easting (M)</b>	409,566.4960	
<b>Elevation (M)*</b>	61.977	
<b>Northing (SFT)</b>	1,664,144.1002	
<b>Easting (SFT)</b>	1,343,719.4123	
<b>Elevation (SFT)*</b>	203.335	

  

<b>Convergence Angle</b>	0	3	27.7664129
<b>Scale Factor</b>	0.999942806		
<b>Elevation Adjust. Factor</b>	0.9999902739		
<b>Combined Adjust. Factor</b>	0.9999330805		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 278 and 530 west of Monticello go west on hwy-278 for 0.50 miles to the station on the left. 97.8 feet east of a gravel drive, 92.30 feet south of the center of hwy-278 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220032 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Right of way marker	88	29.60	97.1	M 319
MK # 2					78 27 18
MK # 3					78 23 50

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	<p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220033	<b>Date Monumented</b> 3/5/2007	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 35	<b>Job Number:</b> 001873, 020462
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,063.0661	
<b>Easting (M)</b>	424,808.1710	
<b>Elevation (M)*</b>	64.312	
<b>Northing (SFT)</b>	1,653,746.9094	
<b>Easting (SFT)</b>	1,393,724.8077	
<b>Elevation (SFT)*</b>	210.997	

  

<b>Convergence Angle</b>	0	8	58.6063430
<b>Scale Factor</b>	0.999946427		
<b>Elevation Adjust. Factor</b>	0.9999899075		
<b>Combined Adjust. Factor</b>	0.9999363350		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 35 on the east side of Monticello go east on hwy-35 for 2.15 miles to the station on the right. 42.0 feet south of the center of hwy-35 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220033 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water meter	160	4.63	15.2
<b>MK # 2</b>	Fence corner	180	0.67	2.2
<b>MK # 3</b>	Water meter	191	4.42	14.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Warrport, Warrport Az.	<p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220033A	<b>Date Monumented</b> 3/5/2007	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 35	<b>Job Number:</b> 001873, 020462
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	504,033.5742	
<b>Easting (M)</b>	425,374.1990	
<b>Elevation (M)*</b>	62.149	
<b>Northing (SFT)</b>	1,653,650.1514	
<b>Easting (SFT)</b>	1,395,581.8512	
<b>Elevation (SFT)*</b>	203.899	

  

<b>Convergence Angle</b>	0	9	10.8935197
<b>Scale Factor</b>	0.999946463		
<b>Elevation Adjust. Factor</b>	0.9999902470		
<b>Combined Adjust. Factor</b>	0.9999367105		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	323	2.99	9.8
<b>MK # 2</b>	Water valve	38	2.74	9.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
<b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS	
<b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220034	<b>Date Monumented</b> 1/24/2017	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 277	<b>Job Number:</b> 020589
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	514,086.3334	0.0040	
<b>Easting (M)</b>	447,754.9017	0.0040	
<b>Elevation (M)*</b>	46.558		
<b>Northing (SFT)</b>	1,686,631.5788		
<b>Easting (SFT)</b>	1,469,009.2067		
<b>Elevation (SFT)*</b>	152.750		

  

<b>Convergence Angle</b>	0	17	17.8878465
<b>Scale Factor</b>	0.999935993		
<b>Elevation Adjust. Factor</b>	0.9999926936		
<b>Combined Adjust. Factor</b>	0.9999286870		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE W/GUY	59	23.56	77.3
<b>MK # 2</b>	WEST END 24" CMP	97	4.18	13.7
<b>MK # 3</b>	SOUTH END OF DELTA PLASTIC SIGN	340	6.00	19.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> MSGN	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.
---	---

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.45 MILES TO THE MARK ON THE RIGHT, 48.0' NORTH OF THE CENTERLINE OF THE HIGHWAY, WEST 31.0' OF THE CENTERLINE OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "220034 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>AZ Mark Station</b>	220034A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220034A	<b>Date Monumented</b> 1/24/2017	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 277	<b>Job Number:</b> 020589
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	514,065.5962	0.0040			
<b>Easting (M)</b>	447,255.5564	0.0040			
<b>Elevation (M)*</b>	46.401				
<b>Northing (SFT)</b>	1,686,563.5435				
<b>Easting (SFT)</b>	1,467,370.9380				
<b>Elevation (SFT)*</b>	152.235				

  

<b>Convergence Angle</b>	0	17	7.0331917
<b>Scale Factor</b>	0.999936010		
<b>Elevation Adjust. Factor</b>	0.9999927182		
<b>Combined Adjust. Factor</b>	0.9999287286		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	228	8.44	27.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.
Ref Mon # 2    ARPB	
Ref Mon # 3    MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    41    38.5303848
<b>Longitude</b>	91    29    24.9986040
<b>Ellipsoid Height (M):</b>	20.371    0.0080
<b>Geoid Height (M):</b>	-26.042    0.0080

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.75 MILES TO THE MARK ON THE RIGHT, 39.7' NORTH OF THE CENTERLINE OF THE HIGHWAY, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "220034A 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220035	<b>Date Monumented</b> 9/13/2017	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 83s	<b>Job Number:</b> 020475
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	504,214.4948	0.0020	
<b>Easting (M)</b>	417,171.5061	0.0020	
<b>Elevation (M)*</b>	66.705		
<b>Northing (SFT)</b>	1,654,243.7217		
<b>Easting (SFT)</b>	1,368,670.1829		
<b>Elevation (SFT)*</b>	218.849		

  

<b>Convergence Angle</b>	0	6	12.8142828
<b>Scale Factor</b>	0.999946230		
<b>Elevation Adjust. Factor</b>	0.9999895319		
<b>Combined Adjust. Factor</b>	0.9999357624		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	94	25.97	85.2
<b>MK # 2</b>	NORTH END 24" CONC CULVERT	80	9.97	32.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> ARPB, MSGN	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33    36    22.0895892
<b>Longitude</b>	91    48    53.8922880
<b>Ellipsoid Height (M):</b>	40.971
<b>Geoid Height (M):</b>	-25.733

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 83s AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 83s 1.1 MILES TO THE MARK ON THE LEFT, EAST 22' OF THE CENTERLINE OF THE HIGHWAY AND 37' NORTH OF THE CENTERLINE OF THE DRIVE TO THE SCHOOL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220035A	<b>Date Monumented</b> 9/13/2017	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> SCOGIN D	<b>Job Number:</b> 020475
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	504,770.1396	0.0020	
<b>Easting (M)</b>	417,153.2801	0.0020	
<b>Elevation (M)*</b>	70.055		
<b>Northing (SFT)</b>	1,656,066.6997		
<b>Easting (SFT)</b>	1,368,610.3865		
<b>Elevation (SFT)*</b>	229.837		

  

<b>Convergence Angle</b>	0	6	12.4403562
<b>Scale Factor</b>	0.999945585		
<b>Elevation Adjust. Factor</b>	0.9999890063		
<b>Combined Adjust. Factor</b>	0.9999345919		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 15 0.9 MILES TO SCOGIN DRIVE AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 53.4' OF THE CENTERLINE OF THE ROAD AND 74' SOUTH OF THE CENTERLINE OF THE DRIVE TO THE HOSPITAL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/2 GUYS	200	22.65	74.3
MK # 2	EMERG SIREN	230	31.85	104.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	<p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 &amp; D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.</p>
Ref Mon # 2    ARMO	
Ref Mon # 3    ARPB, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220036	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> 293	<b>Job Number:</b> 020678
--------------------------	--------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	514,056.2504 0.0010
<b>Easting (M)</b>	440,037.4216 0.0010
<b>Elevation (M)*</b>	55.583
<b>Northing (SFT)</b>	1,686,532.8815
<b>Easting (SFT)</b>	1,443,689.4407
<b>Elevation (SFT)*</b>	182.360

  

<b>Convergence Angle</b>	0 14 30.1583340
<b>Scale Factor</b>	0.999935988
<b>Elevation Adjust. Factor</b>	0.9999912772
<b>Combined Adjust. Factor</b>	0.9999272658

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 41 39.3045216
<b>Longitude</b>	91 34 5.2870944
<b>Ellipsoid Height (M):</b>	29.687 0.0030
<b>Geoid Height (M):</b>	-25.916 0.0030

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 1.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 24 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE GATE POST	270	7.62	25.0
MK # 2	POWER POLE	150	37.80	124.0
MK # 3	POWER POLE	17	55.17	181.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM,ARPB,MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220036A	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> 293	<b>Job Number:</b> 020678
---------------------------	--------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	513,343.0967	0.0010	
<b>Easting (M)</b>	440,035.5417	0.0010	
<b>Elevation (M)*</b>	55.523		
<b>Northing (SFT)</b>	1,684,193.1431		
<b>Easting (SFT)</b>	1,443,683.2731		
<b>Elevation (SFT)*</b>	182.163		

  

<b>Convergence Angle</b>	0	14	30.0520991
<b>Scale Factor</b>	0.999936656		
<b>Elevation Adjust. Factor</b>	0.9999912867		
<b>Combined Adjust. Factor</b>	0.9999279432		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE POST	269	7.92	26.0
MK # 2	POWER POLE	97	17.98	59.0
MK # 3	NORTH END OF PLASTIC CULVERT	187	59.44	195.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 41 16.1568564
<b>Longitude</b>	91 34 5.4769044
<b>Ellipsoid Height (M):</b>	29.626 0.0040
<b>Geoid Height (M):</b>	-25.915 0.0040

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 25 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

  

<b>AZ Mark Station</b>	220036
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220037	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> 277	<b>Job Number:</b> 020678
--------------------------	--------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	512,582.3595	0.0010	
<b>Easting (M)</b>	443,888.0057	0.0010	
<b>Elevation (M)*</b>	48.045		
<b>Northing (SFT)</b>	1,681,697.2911		
<b>Easting (SFT)</b>	1,456,322.5654		
<b>Elevation (SFT)*</b>	157.628		

  

<b>Convergence Angle</b>	0	15	53.6962384
<b>Scale Factor</b>	0.999937399		
<b>Elevation Adjust. Factor</b>	0.9999924602		
<b>Combined Adjust. Factor</b>	0.9999298597		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRRIGATION VALVE	79	24.69	81.0
<b>MK # 2</b>	POWER POLE	232	43.59	143.0
<b>MK # 3</b>	POWER POLE	129	73.15	240.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS E 352.
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM,ARPB,MSGN	

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12B

**Latitude** 33 40 50.9116368

**Longitude** 91 31 36.0298236

**Ellipsoid Height (M):** 22.087 0.0030

**Geoid Height (M):** -25.981 0.0030

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 22 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 22 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

  

<b>AZ Mark Station</b>	220037A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220037A	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> 277	<b>Job Number:</b> 020678
---------------------------	--------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	512,576.9418	0.0010			
<b>Easting (M)</b>	443,391.4926	0.0010			
<b>Elevation (M)*</b>	47.497				
<b>Northing (SFT)</b>	1,681,679.5166				
<b>Easting (SFT)</b>	1,454,693.5886				
<b>Elevation (SFT)*</b>	155.831				

  

<b>Convergence Angle</b>	0	15	42.9065112
<b>Scale Factor</b>	0.999937402		
<b>Elevation Adjust. Factor</b>	0.9999925462		
<b>Combined Adjust. Factor</b>	0.9999299487		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	163	17.68	58.0
MK # 2	UTILITY MARKER (PHONE)	200	18.29	60.0
MK # 3	WEST END OF NORTH HEADWALL	90	26.21	86.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARCM"/>	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS D 352.
Ref Mon # 2 <input type="text" value="ARMO"/>	
Ref Mon # 3 <input type="text" value="IULM,ARPB,MSGN"/>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 40 50.8098828
<b>Longitude</b>	91 31 55.3078416
<b>Ellipsoid Height (M):</b>	21.548 0.0030
<b>Geoid Height (M):</b>	-25.972 0.0030

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 17 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 21 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

  

<b>AZ Mark Station</b>	220037
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220038	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> NA	<b>Job Number:</b> 020678
--------------------------	--------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	511,048.0011	0.0010			
<b>Easting (M)</b>	445,956.9382	0.0010			
<b>Elevation (M)*</b>	47.485				
<b>Northing (SFT)</b>	1,676,663.3169				
<b>Easting (SFT)</b>	1,463,110.3881				
<b>Elevation (SFT)*</b>	155.792				

  

<b>Convergence Angle</b>	0	16	38.4925202
<b>Scale Factor</b>	0.999938918		
<b>Elevation Adjust. Factor</b>	0.9999925480		
<b>Combined Adjust. Factor</b>	0.9999314665		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERLY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERLY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	101	65.23	214.0
<b>MK # 2</b>	POWER POLE	352	76.20	250.0
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARCM</p> <p><b>Ref Mon # 2</b>    ARMO</p> <p><b>Ref Mon # 3</b>    IULM, ARPB, MSGN</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220038A	<b>Date Monumented</b> 12/12/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> NA	<b>Job Number:</b> 020678
---------------------------	--------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	511,438.5895    0.0010
<b>Easting (M)</b>	445,979.2508    0.0010
<b>Elevation (M)*</b>	46.898
<b>Northing (SFT)</b>	1,677,944.7724
<b>Easting (SFT)</b>	1,463,183.5920
<b>Elevation (SFT)*</b>	153.864

  

<b>Convergence Angle</b>	0   16   39.0183935
<b>Scale Factor</b>	0.999938528
<b>Elevation Adjust. Factor</b>	0.9999926403
<b>Combined Adjust. Factor</b>	0.9999311687

  

SUPERCEDDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERLY ALONG GRAVEL ROAD 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	268	2.44	8.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARMO</p> <p>Ref Mon # 3    IULM,ARPB,MSGN</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220039	<b>Date Monumented</b> 12/13/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> NA	<b>Job Number:</b> 020678
--------------------------	--------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	511,289.8024 0.0010
<b>Easting (M)</b>	449,677.7108 0.0010
<b>Elevation (M)*</b>	46.010
<b>Northing (SFT)</b>	1,677,456.6267
<b>Easting (SFT)</b>	1,475,317.6228
<b>Elevation (SFT)*</b>	150.951

  

<b>Convergence Angle</b>	0 17 59.3586932
<b>Scale Factor</b>	0.999938695
<b>Elevation Adjust. Factor</b>	0.9999927796
<b>Combined Adjust. Factor</b>	0.9999314751

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 40 8.0310756
<b>Longitude</b>	91 27 51.5085696
<b>Ellipsoid Height (M):</b>	19.949 0.0030
<b>Geoid Height (M):</b>	-26.091 0.0030

  

Location Description
<p>FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTINUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW, TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION WELL	200	1.83	6.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM,ARPB,MSGN	<b>Comments</b> ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220039A	<b>Date Monumented</b> 12/13/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> NA	<b>Job Number:</b> 020678
---------------------------	--------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	511,713.2069 0.0010
<b>Easting (M)</b>	450,176.1888 0.0010
<b>Elevation (M)*</b>	46.404
<b>Northing (SFT)</b>	1,678,845.7463
<b>Easting (SFT)</b>	1,476,953.0461
<b>Elevation (SFT)*</b>	152.245

  

<b>Convergence Angle</b>	0 18 10.2376597
<b>Scale Factor</b>	0.999938278
<b>Elevation Adjust. Factor</b>	0.9999927177
<b>Combined Adjust. Factor</b>	0.9999309962

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	33 40 21.6890184
<b>Longitude</b>	91 27 32.0711076
<b>Ellipsoid Height (M):</b>	20.333 0.0030
<b>Geoid Height (M):</b>	-26.100 0.0030

  

Location Description
<p>FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTINUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW, TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.5 MILES, TURN RIGHT AND CONTINUE EAST 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRRIGATION WELL	162	2.74	9.0
<b>MK # 2</b>	POWER POLE	90	9.14	30.0
<b>MK # 3</b>	IRRIGATION WELL	228	11.28	37.0

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> IULM,ARPB,MSGN	<b>Comments</b> ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220040	<b>Date Monumented</b> 12/18/2017	<b>Monumented By</b> AR DOT	<b>County</b> DREW	<b>Route</b> CR 75	<b>Job Number:</b> 020678
--------------------------	--------------------------------------	--------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	512,121.3594	0.0010	
<b>Easting (M)</b>	435,804.9739	0.0010	
<b>Elevation (M)*</b>	51.130		
<b>Northing (SFT)</b>	1,680,184.8266		
<b>Easting (SFT)</b>	1,429,803.4852		
<b>Elevation (SFT)*</b>	167.749		

  

<b>Convergence Angle</b>	0	12	58.0142087
<b>Scale Factor</b>	0.999937813		
<b>Elevation Adjust. Factor</b>	0.9999919761		
<b>Combined Adjust. Factor</b>	0.9999297896		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE WITH GUY				220040A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220040A	<b>Date Monumented</b> 12/18/2017	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> CR 75	<b>Job Number:</b> 020678
---------------------------	--------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	512,471.2078	0.0010	
<b>Easting (M)</b>	435,990.9411	0.0010	
<b>Elevation (M)*</b>	52.482		
<b>Northing (SFT)</b>	1,681,332.6209		
<b>Easting (SFT)</b>	1,430,413.6126		
<b>Elevation (SFT)*</b>	172.184		

  

<b>Convergence Angle</b>	0	13	2.0839147
<b>Scale Factor</b>	0.999937474		
<b>Elevation Adjust. Factor</b>	0.9999917640		
<b>Combined Adjust. Factor</b>	0.9999292385		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 35S, WEST OF SELMA, GO EAST ON HIGHWAY 278 9.0 MILES TO COUNTY ROAD 75 (N 16th SECTION ROAD) AND TURN LEFT (NORTH) AND GO 1.1 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 15.5' OF THE C/L OF THE COUNTY ROAD AND NORTHWEST 10.0' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220040" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	211	3.72	12.2
MK # 2	POWER POLE			
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARMO Ref Mon # 3    IULM,ARPB,MSGN	<b>Comments</b>  ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220041	<b>Date Monumented</b> 1/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> SR-83	<b>Job Number:</b> 02X147
--------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	510,281.5040	0.0030	
<b>Easting (M)</b>	420,139.8643	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,674,148.5677		
<b>Easting (SFT)</b>	1,378,408.8715		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	7	17.5401856
<b>Scale Factor</b>	0.999939602		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	5X5 CONC MONUMENT	195	15.55	51.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> ARPB, MSGN	

  

Location Description
220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    39    38.8284732
<b>Longitude</b>	91    46    58.2464424
<b>Ellipsoid Height (M):</b>	54.177    0.0070
<b>Geoid Height (M):</b>	-25.748    0.0070

  

<b>AZ Mark Station</b>	220041A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 220041A	<b>Date Monumented</b> 1/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> DREW	<b>Route</b> SR-83	<b>Job Number:</b> 02X147
---------------------------	-------------------------------------	-------------------------------	-----------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	509,874.6320	0.0030	
<b>Easting (M)</b>	420,150.3825	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,672,813.6885		
<b>Easting (SFT)</b>	1,378,443.3799		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	7	17.7499353
<b>Scale Factor</b>	0.999940019		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SEWER MH	310	31.09	102.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVEWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
Ref Mon # 2    ARMO	
Ref Mon # 3    ARPB, MSGN	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    39    25.6211676
<b>Longitude</b>	91    46    57.8716824
<b>Ellipsoid Height (M):</b>	52.644    0.0070
<b>Geoid Height (M):</b>	-25.748    0.0070

  

Location Description
220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVEWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 22FEL_OFF	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> erial Data Servic	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
-----------------------------	------------------------------------	---	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 236,894.0995		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 290,743.7258		<b>Latitude</b> 36 27 44.7282468
<b>Elevation (M)*</b> 310.927		<b>Longitude</b> 93 13 7.9559112
<b>Northing (SFT)</b> 777,210.0581		<b>Ellipsoid Height (M):</b> 281.738
<b>Easting (SFT)</b> 953,881.7071		<b>Geoid Height (M):</b> -29.189
<b>Elevation (SFT)*</b> 1,020.100		<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 200px; width: 100%;"></div>
<b>Convergence Angle</b> 0 42 33.3477186		
<b>Scale Factor</b> 1.000053326		
<b>Elevation Adjust. Factor</b> 0.9999512078		
<b>Combined Adjust. Factor</b> 1.0000045312		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;">           Ref Mon # 1 <input style="width: 150px;" type="text"/>            Ref Mon # 2 <input style="width: 150px;" type="text"/>            Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230001	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064, 012227
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	104,210.3358	0.0020			
<b>Easting (M)</b>	365,029.8602	0.0020			
<b>Elevation (M)*</b>	206.741				
<b>Northing (SFT)</b>	341,896.7434				
<b>Easting (SFT)</b>	1,197,602.1330				
<b>Elevation (SFT)*</b>	678.281				

  

<b>Convergence Angle</b>	0	13	25.1935273
<b>Scale Factor</b>	0.999950694		
<b>Elevation Adjust. Factor</b>	0.9999675567		
<b>Combined Adjust. Factor</b>	0.9999182523		

  

<b>SUPERCEDED CONTROL</b>				
<b>Horizontal Datum</b>	NAD 83 (1986)			
<b>Latitude</b>	35	16	19.3843092	
<b>Longitude</b>	92	23	3.7251276	
<b>Ellipsoid Height:</b>	178.220			
<b>Grid Northing (Meters)</b>	104,210.8661			
<b>Grid Easting (Meters)</b>	365,030.0830			

  

<b>Location Description</b>				
FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 0.65 MILES TO A SIDE ROAD ON THE RIGHT CALLED SHORT CUT ROAD, TURN RIGHT AND GO 0.15 MILES TO STATION ON RIGHT. THE STATION IS 25 FEET SOUTH OF THE CENTERLINE OF THE CO.RD. AND 2.0 FEET NORTH OF WITNESS POST.				

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	32	20.90	68.6
<b>MK # 2</b>	PUNCH POINT IN TOP OF STEEL POST	349	14.89	48.8
<b>MK # 3</b>	NBC IN 8" CEDAR	310	16.71	54.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR, (SC)BENNETT <b>Ref Mon # 2</b> ARBT, (SC)CANTPORT <b>Ref Mon # 3</b> P777, (SC)NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td style="width: 60%;">                     OLD PN = 92230001                      RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 &amp; Q 68 AND FROM CORS ARLR &amp; ARBT.                      *****Previous three wire elevation from job R80064 is 206.755m. There were no notes available.                 </td> <td style="width: 40%; text-align: right; vertical-align: top;">                     S5112                 </td> </tr> </table>	Comments		OLD PN = 92230001 RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARBT. *****Previous three wire elevation from job R80064 is 206.755m. There were no notes available.	S5112
Comments					
OLD PN = 92230001 RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARBT. *****Previous three wire elevation from job R80064 is 206.755m. There were no notes available.	S5112				

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230001A	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064, 012227, 080505
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	104,119.4964 0.0030
<b>Easting (M)</b>	364,788.0411 0.0030
<b>Elevation (M)*</b>	202.209
<b>Northing (SFT)</b>	341,598.7144
<b>Easting (SFT)</b>	1,196,808.7648
<b>Elevation (SFT)*</b>	663.414

  

<b>Convergence Angle</b>	0 13 30.7531761
<b>Scale Factor</b>	0.999950772
<b>Elevation Adjust. Factor</b>	0.9999682678
<b>Combined Adjust. Factor</b>	0.9999190414

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	35 16 16.4060328
<b>Longitude</b>	92 23 13.2796788
<b>Ellipsoid Height:</b>	173.665
<b>Grid Northing (Meters)</b>	104,120.0321
<b>Grid Easting (Meters)</b>	364,788.2580

  

<b>Vertical Determined By:</b>		LEVEL - Unkown Quality	
<b>Elevation Datum:</b>		NAVD 88	
<b>Geoid Datum:</b>		Geoid 12A	
<b>Latitude</b>	35 16	16.3886232	
<b>Longitude</b>	92 23	13.2881784	
<b>Ellipsoid Height (M):</b>	174.197	0.0060	
<b>Geoid Height (M):</b>	-27.993	0.0060	

  

<b>Location Description</b>
<p>FROM THE JCT OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER. GO NORTH ON HWY. 65 0.55 MILES TO THE STATION ON RIGHT. THE STATION IS 50 FEET EAST OF THE CENTERLINE OF HWY. 65, 130 FEET SOUTH OF A GRAVEL DRIVEWAY AND 2.0 FEET WEST OF A WITNESS POST.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	173	19.48	63.9
<b>MK # 2</b>	NBC IN 12" RED OAK	257	31.64	103.8
<b>MK # 3</b>	NBC IN TOP OF FENCE POST	296	32.78	107.5

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARLR, (SC)BENNETT</p> <p><b>Ref Mon # 2</b>    ARBT, (SC)CANTPORT</p> <p><b>Ref Mon # 3</b>    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>OLD PN = 92230001A <span style="float: right;">S5112</span>  RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 &amp; Q 68 AND FROM CORS ARLR &amp; ARB  *****Previous three wire elevation from job R80064 is 202.229m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230002	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	106,494.9451	
<b>Easting (M)</b>	363,483.5890	
<b>Elevation (M)*</b>	158.298	
<b>Northing (SFT)</b>	349,392.1657	
<b>Easting (SFT)</b>	1,192,529.0749	
<b>Elevation (SFT)*</b>	519.349	

  

<b>Convergence Angle</b>	0	14	1.0107840
<b>Scale Factor</b>	0.999948817		
<b>Elevation Adjust. Factor</b>	0.9999751585		
<b>Combined Adjust. Factor</b>	0.9999239768		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.48 MILES TO THE STATION ON THE RIGHT. THE STATION IS 41 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 217 FEET SOUTH OF A PRIVATE DRIVE AND 2.0 FEET WEST OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	129	5.90	19.3
<b>MK # 2</b>	NBC IN 18" CEDAR	130	39.15	128.5
<b>MK # 3</b>	NBC IN COMBINATION POLE W/ARM	82	38.22	125.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> BENNETT</p> <p><b>Ref Mon # 2</b> CANTPORT</p> <p><b>Ref Mon # 3</b> NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>OLD PN = 92230002</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230002A	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	106,745.8641				
<b>Easting (M)</b>	363,367.8960				
<b>Elevation (M)*</b>	149.267				
<b>Northing (SFT)</b>	350,215.3891				
<b>Easting (SFT)</b>	1,192,149.5055				
<b>Elevation (SFT)*</b>	489.720				

  

<b>Convergence Angle</b>	0	14	3.6989226
<b>Scale Factor</b>	0.999948619		
<b>Elevation Adjust. Factor</b>	0.9999765757		
<b>Combined Adjust. Factor</b>	0.9999251959		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	33	11.78	38.7
MK # 2	NBC IN 14" PINE	147	34.17	112.1
MK # 3	NBC IN TOP OF FENCE POST	266	22.86	75.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BENNETT <b>Ref Mon # 2</b> CANTPORT <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN = 92230002A
--	---------------------------------------

  

Location Description			
FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 204 FEET SOUTH OF THE ENTRANCE TO CONWAY ASPHALT AND 2.0 FEET WEST OF A WITNESS POST.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230003	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	108,174.1661	
<b>Easting (M)</b>	363,574.5340	
<b>Elevation (M)*</b>	159.325	
<b>Northing (SFT)</b>	354,901.4099	
<b>Easting (SFT)</b>	1,192,827.4503	
<b>Elevation (SFT)*</b>	522.719	

  

<b>Convergence Angle</b>	0	13	59.0735731
<b>Scale Factor</b>	0.999947515		
<b>Elevation Adjust. Factor</b>	0.9999749973		
<b>Combined Adjust. Factor</b>	0.9999225136		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 3.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 269 FEET SOUTH OF ENTRANCE NO. 1 TO THE OZARK TRADE CENTER AND 2.0 FEET WEST OF A WITNESS POST.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 18" PINE	176	41.38	135.8
MK # 2	NBC IN 8" PINE	187	33.29	109.2
MK # 3	NBC IN POWER POLE	305	40.47	132.8

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BENNETT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CANTPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	BENNETT	Ref Mon # 2	CANTPORT	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     OLD PN = 92230003                 </td> </tr> </table>	Comments	OLD PN = 92230003
Ref Mon # 1	BENNETT								
Ref Mon # 2	CANTPORT								
Ref Mon # 3	NONE								
Comments									
OLD PN = 92230003									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230003A	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80064
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	108,408.2491				
<b>Easting (M)</b>	363,294.1570				
<b>Elevation (M)*</b>	162.160				
<b>Northing (SFT)</b>	355,669.3973				
<b>Easting (SFT)</b>	1,191,907.5801				
<b>Elevation (SFT)*</b>	532.020				

  

<b>Convergence Angle</b>	0	14	5.5541897
<b>Scale Factor</b>	0.999947340		
<b>Elevation Adjust. Factor</b>	0.9999745525		
<b>Combined Adjust. Factor</b>	0.9999218938		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 18" PINE	172	33.06	108.5
<b>MK # 2</b>	NBC IN 6" REDBUD	224	23.96	78.6
<b>MK # 3</b>	NBC IN LIGHT POLE	240	34.12	111.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BENNETT	OLD PN = 92230003A
<b>Ref Mon # 2</b> CANTPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230004	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80065,R80064
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	109,708.2231	
<b>Easting (M)</b>	362,718.2540	
<b>Elevation (M)*</b>	169.301	
<b>Northing (SFT)</b>	359,934.3953	
<b>Easting (SFT)</b>	1,190,018.1383	
<b>Elevation (SFT)*</b>	555.448	

  

<b>Convergence Angle</b>	0	14	18.9452186
<b>Scale Factor</b>	0.999946389		
<b>Elevation Adjust. Factor</b>	0.9999734319		
<b>Combined Adjust. Factor</b>	0.9999198223		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TELEPHONE POLE	221	12.65	41.5
<b>MK # 2</b>	NBC IN COMBINATION POLE	350	37.66	123.6
<b>MK # 3</b>	NBC IN 8" PERSIMMON TREE	31	41.11	134.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BENNETT 1940 <b>Ref Mon # 2</b> MAY 1940 <b>Ref Mon # 3</b> NONE	THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004

  

Location Description	
FROM THE JCT. OF HWY. 65 AND HWY. 25 JUST NORTH OF THE SMALL VILLAGE OF GREENBRIER, GO NORTH ON HWY. 65 FOR 7.69 KM (4.78 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.75 METERS WEST OF THE CENTER OF HWY. 65, 38.4 METERS NORTHWEST OF A DRIVEWAY AND 0.61 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92230004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	19	17.4688356
<b>Longitude</b>	92	24	36.1067292
<b>Ellipsoid Height (M):</b>	140.723		
<b>Geoid Height (M):</b>	-28.578		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230004A	<b>Date Monumented</b> 5/7/1992	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80065,R80064
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 109,416.1891		<b>Latitude</b> 35 19 7.9765824
<b>Easting (M)</b> 362,600.9030		<b>Longitude</b> 92 24 40.7046852
<b>Elevation (M)*</b> 166.781		<b>Ellipsoid Height (M):</b> 138.202
		<b>Geoid Height (M):</b> -28.579

  

<b>Northing (SFT)</b> 358,976.2804		<b>Location Description</b>
<b>Easting (SFT)</b> 1,189,633.1293		<p>FROM THE JCT. OF HWY. 65 AND HWY. 25 JUST NORTH OF THE SMALL VILLAGE OF GREENBRIER, GO NORTH ON HWY. 65 FOR 7.37 KM (4.58 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS WEST OF THE CENTER OF HWY. 65, 68.88 METERS SOUTH OF "ZION GROVE LANE" AND 0.61 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92230004A AZ. MK." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 547.181		
<b>Convergence Angle</b> 0 14 21.6207652		
<b>Scale Factor</b> 0.999946600		
<b>Elevation Adjust. Factor</b> 0.9999738273		
<b>Combined Adjust. Factor</b> 0.9999204287		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN CONCRETE SIGN POST	14	61.17	200.7
<b>MK # 2</b>	NBC IN LIGHT POLE	328	25.76	84.5
<b>MK # 3</b>	NBC IN POWER POLE	30	70.82	232.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BENNETT 1940	<p>THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004A</p>
<b>Ref Mon # 2</b> MAY 1940	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230005	<b>Date Monumented</b> 11/23/1994	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80065
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	113,714.5471	
<b>Easting (M)</b>	362,384.8040	
<b>Elevation (M)*</b>	202.336	
<b>Northing (SFT)</b>	373,078.4766	
<b>Easting (SFT)</b>	1,188,924.1445	
<b>Elevation (SFT)*</b>	663.831	

  

<b>Convergence Angle</b>	0	14	27.0155651
<b>Scale Factor</b>	0.999943715		
<b>Elevation Adjust. Factor</b>	0.9999682479		
<b>Combined Adjust. Factor</b>	0.9999119647		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	270	5.60	18.4
<b>MK # 2</b>	SOUTHEAST CORNER OF BUILDING	314	15.25	50.0
<b>MK # 3</b>	COMBINATION POLE	190	24.46	80.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BENNETT 1940	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.
<b>Ref Mon # 2</b> MAY 1940	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230005A	<b>Date Monumented</b> 11/23/1994	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 65	<b>Job Number:</b> R80065
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	114,399.2461	
<b>Easting (M)</b>	362,551.2660	
<b>Elevation (M)*</b>	206.298	
<b>Northing (SFT)</b>	375,324.8599	
<b>Easting (SFT)</b>	1,189,470.2785	
<b>Elevation (SFT)*</b>	676.829	

  

<b>Convergence Angle</b>	0	14	23.2447770
<b>Scale Factor</b>	0.999943297		
<b>Elevation Adjust. Factor</b>	0.9999676262		
<b>Combined Adjust. Factor</b>	0.9999109250		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CEDAR FENCE POST	350	1.25	4.1
<b>MK # 2</b>	CONCRETE RIGHT-OF-WAY MARKER	207	14.37	47.1
<b>MK # 3</b>	18" METAL PIPE	155	4.72	15.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BENNETT 1940	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.
<b>Ref Mon # 2</b> MAY 1940	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230006	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	107,643.9981	
<b>Easting (M)</b>	367,025.1500	
<b>Elevation (M)*</b>	196.548	
<b>Northing (SFT)</b>	353,162.0171	
<b>Easting (SFT)</b>	1,204,148.3463	
<b>Elevation (SFT)*</b>	644.841	

  

<b>Convergence Angle</b>	0	12	39.5431922
<b>Scale Factor</b>	0.999947908		
<b>Elevation Adjust. Factor</b>	0.9999691562		
<b>Combined Adjust. Factor</b>	0.9999170658		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	218	2.00	6.6
MK # 2	EAST CORNER OF A BARN	312	13.62	44.7
MK # 3	14" (0.35 M) PERSIMMON TREE	354	24.37	80.0

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>MAY 1940</td> </tr> <tr> <td>Ref Mon # 2</td> <td>92230001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>120009</td> </tr> </table>	Ref Mon # 1	MAY 1940	Ref Mon # 2	92230001	Ref Mon # 3	120009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           ELEVATION BY 3-WIRE NGS Point M 68            *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 &amp;            REPLACED WITH NEW GPS MONUMENT # 230036         </td> </tr> </table>	Comments	ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036
Ref Mon # 1	MAY 1940								
Ref Mon # 2	92230001								
Ref Mon # 3	120009								
Comments									
ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036									

  

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 18 11.0338848
Longitude	92 21 45.2832624
Ellipsoid Height (M):	168.032
Geoid Height (M):	-28.516

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.70 KM. (2.30 MI.) TO THE STATION ON THE RIGHT. 12.4 METERS NORTHWEST OF THE CENTER OF HWY-25, 9.40 METERS NORTHEAST OF A GRAVEL DRIVEWAY TO SOME BARNs AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230006A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657, 012227
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	107,913.9686	0.0030	
<b>Easting (M)</b>	367,482.3373	0.0030	
<b>Elevation (M)*</b>	197.538		
<b>Northing (SFT)</b>	354,047.7453		
<b>Easting (SFT)</b>	1,205,648.3016		
<b>Elevation (SFT)*</b>	648.089		

  

<b>Convergence Angle</b>	0	12	29.0350066
<b>Scale Factor</b>	0.999947701		
<b>Elevation Adjust. Factor</b>	0.9999690008		
<b>Combined Adjust. Factor</b>	0.9999167034		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	18	19.8651420
<b>Longitude</b>	92	21	27.2170008
<b>Ellipsoid Height:</b>	169.027		
<b>Grid Northing (Meters)</b>	107,914.4781		
<b>Grid Easting (Meters)</b>	367,482.5370		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD TIE FENCE CORNER POST	59	5.87	19.3
MK # 2	POWER POLE	222	5.48	18.0
MK # 3	POWER POLE	323	23.28	76.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, (SC) MAY 1940	ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: IN 2015 S5112 FOUND THAT M 68 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING JOB. *NOTE: FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. THAT WAS RAN FROM M 68 & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
<b>Ref Mon # 2</b> ARBT, (SC)92230001	
<b>Ref Mon # 3</b> P777, (SC)120009	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35   18   19.8485856
<b>Longitude</b>	92   21   27.2248308
<b>Ellipsoid Height (M):</b>	169.605   0.0060
<b>Geoid Height (M):</b>	-27.920   0.0060

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25 &amp; 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.14 KM. (1.95 MI.) TO THE STATION ON THE LEFT. 14.39 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.53 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.76 METERS NORTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	230006
<b>Geodetic Azimuth</b>	239 11 36.85120
<b>Grid Azimuth</b>	239 24 05.91755

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230007	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	110,103.5761	
<b>Easting (M)</b>	370,625.2900	
<b>Elevation (M)*</b>	209.719	
<b>Northing (SFT)</b>	361,231.4826	
<b>Easting (SFT)</b>	1,215,959.8056	
<b>Elevation (SFT)*</b>	688.053	

  

<b>Convergence Angle</b>	0	11	16.8040387
<b>Scale Factor</b>	0.999946087		
<b>Elevation Adjust. Factor</b>	0.9999670893		
<b>Combined Adjust. Factor</b>	0.9999131781		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25 &amp; 310 IN THE SMALL TOWN OF GUY GO NORTHERLY ON HWY-25 FOR 1.05 KM. (0.65 MI.) TO THE "GUY-PERKINS SCHOOL" ON THE RIGHT AND THE STATION ACROSS THE HIGHWAY ON THE LEFT. 11.45 METERS NORTH OF THE CENTER OF HWY-25 AND 0.51 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A MANHOLE	302	14.20	46.6
MK # 2	CONCRETE RIGHT OF WAY MONUMENT	356	0.70	2.3
MK # 3	GUY POLE	78	7.24	23.8

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	MAY 1940	
Ref Mon # 2	92230001	
Ref Mon # 3	120009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230007A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	109,931.9891				
<b>Easting (M)</b>	371,039.7000				
<b>Elevation (M)*</b>	212.328				
<b>Northing (SFT)</b>	360,668.5342				
<b>Easting (SFT)</b>	1,217,319.4158				
<b>Elevation (SFT)*</b>	696.613				

  

<b>Convergence Angle</b>	0	11	7.2431593
<b>Scale Factor</b>	0.999946207		
<b>Elevation Adjust. Factor</b>	0.9999666799		
<b>Combined Adjust. Factor</b>	0.9999128887		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25 &amp; 310 IN THE SMALL TOWN OF GUY GO NORTHERLY ON HWY-25 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 11.38 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-25, 5.8 METERS SOUTHEAST OF A GUY POLE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF MANHOLE	328	7.02	23.0
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	294	4.47	14.7
<b>MK # 3</b>	COMBINATION POLE	220	25.44	83.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MAY 1940</p> <p><b>Ref Mon # 2</b>    92230001</p> <p><b>Ref Mon # 3</b>    120009</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230008	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657, 012227
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	112,408.5316	0.0030	
<b>Easting (M)</b>	377,669.6754	0.0030	
<b>Elevation (M)*</b>	230.498		
<b>Northing (SFT)</b>	368,793.6574		
<b>Easting (SFT)</b>	1,239,071.2600		
<b>Elevation (SFT)*</b>	756.226		

  

<b>Convergence Angle</b>	0	8	34.6321091
<b>Scale Factor</b>	0.999944510		
<b>Elevation Adjust. Factor</b>	0.9999638286		
<b>Combined Adjust. Factor</b>	0.9999083406		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	20	46.7241108
<b>Longitude</b>	92	14	44.3950188
<b>Ellipsoid Height:</b>	202.089		
<b>Grid Northing (Meters)</b>	112,409.0200		
<b>Grid Easting (Meters)</b>	377,669.8250		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	250	2.00	6.6
MK # 2	GAS METER	202	15.12	49.6
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARLR, (SC) MAY 1940	PREVIOUS ELEVATION (756.2091 SURV. FT.) BY 3-WIRE USING NGS Point R 68 IN 2105 S5112 SEARCH FOUND THAT R 68 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING. UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM 2ND ORDER NGS BM'S Q 68 & N 208 FOR JOB # 012227 AND CHECKED
Ref Mon # 2    ARBT, (SC)92230001	
Ref Mon # 3    P777, (SC)120009	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    20    46.7082492
<b>Longitude</b>	92    14    44.4008940
<b>Ellipsoid Height (M):</b>	202.757    0.0060
<b>Geoid Height (M):</b>	-27.750    0.0060

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO SOUTHERLY ON HWY-25 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT. 12.07 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 2.0 METERS NORTHWEST OF A WITNESS POST SET BESIDE A COMBINATION POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230008A	<b>Date Monumented</b> 11/29/1995	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 001657, 012227
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	111,808.9915    0.0030
<b>Easting (M)</b>	377,322.0242    0.0030
<b>Elevation (M)*</b>	222.434
<b>Northing (SFT)</b>	366,826.6663
<b>Easting (SFT)</b>	1,237,930.6744
<b>Elevation (SFT)*</b>	729.769

  

<b>Convergence Angle</b>	0    8    42.6091536
<b>Scale Factor</b>	0.999944905
<b>Elevation Adjust. Factor</b>	0.9999650941
<b>Combined Adjust. Factor</b>	0.9999100010

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	20	27.2412420
<b>Longitude</b>	92	14	58.1033724
<b>Ellipsoid Height:</b>	194.027		
<b>Grid Northing (Meters)</b>	111,809.4911		
<b>Grid Easting (Meters)</b>	377,322.1810		

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO SOUTHERLY ON HWY-25 FOR 5.95 KM. (3.70 MI.) TO THE STATION ON THE RIGHT. 11.50 METERS NORTHWEST OF THE CENTER OF HWY-25 AND 0.66 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	17	25.60	84.0
MK # 2	TELEPHONE POLE	295	0.75	2.5
MK # 3	WATER VALVE	215	30.50	100.1

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	ARLR, (SC) MAY 1940	PREVIOUS ELEVATION (729.7689 SURV. FT.) BY 3-WIRE USING NGS P 208 *NOTE: IN 2105 S5112 SEARCH FOUND THAT P 208 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING. UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM 2ND ORDER NGS BM'S Q 68 & N 208 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68. *NOTE: S5112 ALSO RAN THRU P 207 BUT CHECKED 0.09'
<b>Ref Mon # 2</b>	ARBT, (SC)92230001	
<b>Ref Mon # 3</b>	P777, (SC)120009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230016A	<b>Date Monumented</b> 3/24/2000	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 008570
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	97,215.8793	
<b>Easting (M)</b>	358,413.9076	
<b>Elevation (M)*</b>	96.496	
<b>Northing (SFT)</b>	318,949.0973	
<b>Easting (SFT)</b>	1,175,896.2952	
<b>Elevation (SFT)*</b>	316.588	

  

<b>Convergence Angle</b>	0	15	56.7779357
<b>Scale Factor</b>	0.999957280		
<b>Elevation Adjust. Factor</b>	0.9999848568		
<b>Combined Adjust. Factor</b>	0.9999421375		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 289, 1.00 METERS EAST OF A FENCE LINE AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    EARNHART HALE</p> <p>Ref Mon # 2    PJTC CAMPUS</p> <p>Ref Mon # 3    230011</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 Wire from NGS point D 18</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230017	<b>Date Monumented</b> 3/24/2000	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 008570,080426
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	101,837.7904		
<b>Easting (M)</b>	356,639.9503		
<b>Elevation (M)*</b>	95.645		
<b>Northing (SFT)</b>	334,112.8173		
<b>Easting (SFT)</b>	1,170,076.2369		
<b>Elevation (SFT)*</b>	313.796		

  

<b>Convergence Angle</b>	0	16	38.1055895
<b>Scale Factor</b>	0.999952817		
<b>Elevation Adjust. Factor</b>	0.9999849904		
<b>Combined Adjust. Factor</b>	0.9999378081		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	15	1.1883132
<b>Longitude</b>	92	28	35.2556544
<b>Ellipsoid Height:</b>	67.649		
<b>Grid Northing (Meters)</b>	101,837.7793		
<b>Grid Easting (Meters)</b>	356,639.9425		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	NORTH END LINE BRACE POST	34	2.65	8.7	
<b>MK # 2</b>	MIDDLE END LINE BRACE POST	90	1.36	4.5	
<b>MK # 3</b>	SOUTH END LINE BRACE POST	149	2.68	8.8	

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	EARNHART HALE	<p>Elevation by 3 Wire from NGS point D 18</p>
<b>Ref Mon # 2</b>	PJTC CAMPUS	
<b>Ref Mon # 3</b>	230011	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230017A	<b>Date Monumented</b> 3/24/2000	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 008570,080426
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,281.5278	
<b>Easting (M)</b>	356,630.7374	
<b>Elevation (M)*</b>	93.691	
<b>Northing (SFT)</b>	332,287.8125	
<b>Easting (SFT)</b>	1,170,046.0110	
<b>Elevation (SFT)*</b>	307.386	

  

<b>Convergence Angle</b>	0	16	38.2556888
<b>Scale Factor</b>	0.999953328		
<b>Elevation Adjust. Factor</b>	0.9999852970		
<b>Combined Adjust. Factor</b>	0.9999386257		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	14	43.1360844
<b>Longitude</b>	92	28	35.5132560
<b>Ellipsoid Height:</b>	65.589		
<b>Grid Northing (Meters)</b>	101,281.5082		
<b>Grid Easting (Meters)</b>	356,630.7382		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END LINE BRACE POST	11	11.20	36.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    EARNHART HALE</p> <p><b>Ref Mon # 2</b>    PJTC CAMPUS</p> <p><b>Ref Mon # 3</b>    230011</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 Wire from NGS point D 18</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230019	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> I 40	<b>Job Number:</b> 10,8640_5,012119,080437,08
--------------------------	--------------------------------------	------------------------------	---------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,587.4521	
<b>Easting (M)</b>	361,482.9580	
<b>Elevation (M)*</b>	87.587	
<b>Northing (SFT)</b>	228,304.8324	
<b>Easting (SFT)</b>	1,185,965.3380	
<b>Elevation (SFT)*</b>	287.359	

  

<b>Convergence Angle</b>	0	14	43.4461771
<b>Scale Factor</b>	0.999994900		
<b>Elevation Adjust. Factor</b>	0.9999862549		
<b>Combined Adjust. Factor</b>	0.9999811550		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	98	19.00	62.3
<b>MK # 2</b>	CENTER OF CONCRETE DRAIN UNDER I 40	214	20.95	68.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
<b>Ref Mon # 2</b> SEARPORT	
<b>Ref Mon # 3</b> AHTD LITTLE ROCK	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 57 35.3877156
<b>Longitude</b>	92 25 18.2118936
<b>Ellipsoid Height (M):</b>	60.140
<b>Geoid Height (M):</b>	-27.447

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 SOUTH LOCATED IN MAYFLOWER, GO EAST ON STATE HIGHWAY 89 SOUTH FOR 0.402 KM (0.25 MI) TO INTERSTATE DRIVE ON THE RIGHT, TURN RIGHT (SOUTH) ON INTERSTATE DRIVE AND GO SOUTH FOR 1.352 KM (0.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.65 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANES, 6.20 METERS WEST OF THE CENTER OF INTERSTATE DRIVE, AND 1.00 METER WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "230019 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 754.378 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>

<b>AZ Mark Station</b>	230019A
<b>Geodetic Azimuth</b>	182 21 53
<b>Grid Azimuth</b>	182 36 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230019A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> I 40	<b>Job Number:</b> 10,8640_5,012119,080437,08
---------------------------	--------------------------------------	------------------------------	---------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	68,833.8700	
<b>Easting (M)</b>	361,448.6050	
<b>Elevation (M)*</b>	84.869	
<b>Northing (SFT)</b>	225,832.4552	
<b>Easting (SFT)</b>	1,185,852.6316	
<b>Elevation (SFT)*</b>	278.442	

  

<b>Convergence Angle</b>	0	14	44.1600158
<b>Scale Factor</b>	0.999996189		
<b>Elevation Adjust. Factor</b>	0.9999866814		
<b>Combined Adjust. Factor</b>	0.9999828705		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	34	27.90	91.5
MK # 2	CENTER OF CONCRETE DRAIN UNDER I 40	305	12.90	42.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230020	<b>Date Monumented</b> 11/17/2006	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> 65B	<b>Job Number:</b> 12119,080388,080496, 08063
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	82,232.8872	0.0040
<b>Easting (M)</b>	360,485.0141	0.0040
<b>Elevation (M)*</b>	91.003	
<b>Northing (SFT)</b>	269,792.3974	
<b>Easting (SFT)</b>	1,182,691.2504	
<b>Elevation (SFT)*</b>	298.567	

  

<b>Convergence Angle</b>	0	15	7.6114693
<b>Scale Factor</b>	0.999975362		
<b>Elevation Adjust. Factor</b>	0.9999857188		
<b>Combined Adjust. Factor</b>	0.9999610812		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	4	25.5898236
<b>Longitude</b>	92	25	59.7406872
<b>Ellipsoid Height:</b>	63.239		
<b>Grid Northing (Meters)</b>	82,232.8741		
<b>Grid Easting (Meters)</b>	360,485.0020		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	RR milepost #372		305	4.40	14.4
MK # 2	South gate post		223	22.80	74.8
MK # 3	Underground cable marker		5	4.45	14.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARRV	3-Wire Levels were ran by S5103 in Job 080273 in September 2006 from NGS BM D291/B291. *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION      NAD 83 (1997) ARE PJTC, BUTLER AND LROC. THE OLD GEOID HT. WAS - 27.765m

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230021	<b>Date Monumented</b> 3/14/2005	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	81,081.3650				
<b>Easting (M)</b>	376,157.4890				
<b>Elevation (M)*</b>	105.351				
<b>Northing (SFT)</b>	266,014.4450				
<b>Easting (SFT)</b>	1,234,110.0285				
<b>Elevation (SFT)*</b>	345.639				

  

<b>Convergence Angle</b>	0	9	7.5656950
<b>Scale Factor</b>	0.999976901		
<b>Elevation Adjust. Factor</b>	0.9999834673		
<b>Combined Adjust. Factor</b>	0.9999603686		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOOD CORNER POST	2.0	10.25	33.6
<b>MK # 2</b>	COMBINATION POLE	30	30.15	98.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 230013	ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
<b>Ref Mon # 2</b> 230014	
<b>Ref Mon # 3</b> 230015	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 3 50.0173020
<b>Longitude</b>	92 15 40.9976208
<b>Ellipsoid Height (M):</b>	77.859
<b>Geoid Height (M):</b>	-27.492

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 64, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.7 MILES TO BERYL ROAD ON THE RIGHT, TURN RIGHT ON BERYL ROAD AND GO 1.4 MILES TO THE STATION MARK ON THE RIGHT, 6.7 METERS WEST OF THE CENTERLINE OF THE ROAD AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230021 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230021A	<b>Date Monumented</b> 3/14/2005	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	80,689.0981	
<b>Easting (M)</b>	376,167.2780	
<b>Elevation (M)*</b>	101.924	
<b>Northing (SFT)</b>	264,727.4827	
<b>Easting (SFT)</b>	1,234,142.1446	
<b>Elevation (SFT)*</b>	334.396	

  

<b>Convergence Angle</b>	0	9	7.3169792
<b>Scale Factor</b>	0.999977459		
<b>Elevation Adjust. Factor</b>	0.9999840051		
<b>Combined Adjust. Factor</b>	0.9999614644		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TRANSMISSION LINE POLE	263	18.60	61.0
<b>MK # 2</b>	POWER POLE WITH GUY	300	19.75	64.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 230013	ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
<b>Ref Mon # 2</b> 230014	
<b>Ref Mon # 3</b> 230015	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230022	<b>Date Monumented</b> 3/14/2005	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 107	<b>Job Number:</b> 080149
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	81,124.9000				
<b>Easting (M)</b>	382,414.0010				
<b>Elevation (M)*</b>	89.075				
<b>Northing (SFT)</b>	266,157.2761				
<b>Easting (SFT)</b>	1,254,636.6016				
<b>Elevation (SFT)*</b>	292.240				

  

<b>Convergence Angle</b>	0	6	43.8814024
<b>Scale Factor</b>	0.999976819		
<b>Elevation Adjust. Factor</b>	0.9999860214		
<b>Combined Adjust. Factor</b>	0.9999628407		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 319 AND STATE HIGHWAY 107, LOCATED SOUTH OF VILONIA, GO NORTH ON U.S. HIGHWAY 107 FOR 0.5 METERS TO GREEN MEADOWS ROAD ON THE LEFT, TURN LEFT AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, SOUTH 6.80 METERS OF THE CENTERLINE OF THE ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 230022 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	21.50	70.5
MK # 2	GAS METER	269	38.20	125.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    230013</p> <p>Ref Mon # 2    230014</p> <p>Ref Mon # 3    230015</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230022A	<b>Date Monumented</b> 3/14/2005	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 107	<b>Job Number:</b> 080149
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	80,605.5791				
<b>Easting (M)</b>	382,599.4280				
<b>Elevation (M)*</b>	90.976				
<b>Northing (SFT)</b>	264,453.4708				
<b>Easting (SFT)</b>	1,255,244.9567				
<b>Elevation (SFT)*</b>	298.477				

  

<b>Convergence Angle</b>	0	6	39.5997759
<b>Scale Factor</b>	0.999977557		
<b>Elevation Adjust. Factor</b>	0.9999857231		
<b>Combined Adjust. Factor</b>	0.9999632804		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	147	12.60	41.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230023	<b>Date Monumented</b> 3/14/2005	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 080149
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	82,948.1211	
<b>Easting (M)</b>	373,261.5730	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	272,138.9606	
<b>Easting (SFT)</b>	1,224,609.0108	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	14.2004194
<b>Scale Factor</b>	0.999974308		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS EAST 33 .20 METERS OF LIBERTY LOOP, 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 8.85 METERS WEST OF A ASPH DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230023 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	241	18.15	59.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    230013</p> <p>Ref Mon # 2    230014</p> <p>Ref Mon # 3    230015</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230024	<b>Date Monumented</b> 12/3/2008	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 36	<b>Job Number:</b> 080339
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	91,492.6611	
<b>Easting (M)</b>	379,557.9310	
<b>Elevation (M)*</b>	96.264	
<b>Northing (SFT)</b>	300,172.1723	
<b>Easting (SFT)</b>	1,245,266.3120	
<b>Elevation (SFT)*</b>	315.826	

  

<b>Convergence Angle</b>	0	7	50.0164873
<b>Scale Factor</b>	0.999963458		
<b>Elevation Adjust. Factor</b>	0.9999848933		
<b>Combined Adjust. Factor</b>	0.9999483518		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO WEST ON HIGHWAY 36 FOR 0.10 MILES TO THE STATION MARK ON THE RIGHT, 28.0 FEET NORTH WEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTH EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230024 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	356	10.21	33.5
MK # 2	COMBINATION POLE W/GUY	56	30.48	100.0
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.
Ref Mon # 1	ARLR	
Ref Mon # 2	ARBT	
Ref Mon # 3	ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230024A	<b>Date Monumented</b> 12/3/2008	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 107	<b>Job Number:</b> 080339
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,041.1951	
<b>Easting (M)</b>	379,700.7760	
<b>Elevation (M)*</b>	93.661	
<b>Northing (SFT)</b>	301,971.8209	
<b>Easting (SFT)</b>	1,245,734.9626	
<b>Elevation (SFT)*</b>	307.287	

  

<b>Convergence Angle</b>	0	7	46.7606604
<b>Scale Factor</b>	0.999962823		
<b>Elevation Adjust. Factor</b>	0.9999853017		
<b>Combined Adjust. Factor</b>	0.9999481253		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO NORTH ON HIGHWAY 107 FOR 0.50 MILES TO THE STATION MARK ON THE LEFT, 37.0 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 2.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230024A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	109	23.38	76.7	
MK # 2	WATER METER	20	16.00	52.5	
MK # 3	S.E. CORNER OF WOOD FRAME HOUSE	350	23.01	75.5	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARHR	CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230025	<b>Date Monumented</b> 12/3/2008	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 36	<b>Job Number:</b> 080339
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	91,680.7261	
<b>Easting (M)</b>	379,982.5530	
<b>Elevation (M)*</b>	98.904	
<b>Northing (SFT)</b>	300,789.1822	
<b>Easting (SFT)</b>	1,246,659.4260	
<b>Elevation (SFT)*</b>	324.487	

  

<b>Convergence Angle</b>	0	7	40.2630023
<b>Scale Factor</b>	0.999963238		
<b>Elevation Adjust. Factor</b>	0.9999844790		
<b>Combined Adjust. Factor</b>	0.9999477176		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO EAST ON HIGHWAY 36 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 41.5 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 10.5 EAST OF THE CENTER LINE OF A FIELD ENTRANCE AND NORTH 8.0 OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230025 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD GATE POST	183	2.59	8.5
MK # 2	COMBINATION POLE	268	13.11	43.0
MK # 3	WOOD GATE POST	250	5.94	19.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARBT</p> <p><b>Ref Mon # 3</b>    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230026	<b>Date Monumented</b> 1/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> 365	<b>Job Number:</b> 012119,080388
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 78,813.2771		<b>Latitude</b> 35 2 34.8143640
<b>Easting (M)</b> 361,840.2160		<b>Longitude</b> 92 25 5.6748288
<b>Elevation (M)*</b> 87.894		<b>Ellipsoid Height (M):</b> 60.223
<b>Northing (SFT)</b> 258,573.2266		<b>Geoid Height (M):</b> -27.674
<b>Easting (SFT)</b> 1,187,137.4420		
<b>Elevation (SFT)*</b> 288.367		

  

<b>Convergence Angle</b>	0	14	<b>Scale Factor</b> 36.1508700
<b>Scale Factor</b>	0.999980253		
<b>Elevation Adjust. Factor</b>	0.9999862067		
<b>Combined Adjust. Factor</b>	0.9999664600		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RR signal box	183	33.00	108.3
<b>MK # 2</b>	Gas meter	90	26.20	86.0
<b>MK # 3</b>	Power pole with transformer	16	40.20	131.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation to this station is derived from digital level run from Benchmark Z 290 PID# FG1536 by crew S5102 in Feb. 2010.</td> </tr> </table>	Comments	Elevation to this station is derived from digital level run from Benchmark Z 290 PID# FG1536 by crew S5102 in Feb. 2010.
Comments			
Elevation to this station is derived from digital level run from Benchmark Z 290 PID# FG1536 by crew S5102 in Feb. 2010.			

  

<b>AZ Mark Station</b>	Z 290
<b>Geodetic Azimuth</b>	155 36 04
<b>Grid Azimuth</b>	155 40 50

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230027	<b>Date Monumented</b> 1/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> I-40	<b>Job Number:</b> 012119
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	73,725.2511	
<b>Easting (M)</b>	362,198.3830	
<b>Elevation (M)*</b>	94.425	
<b>Northing (SFT)</b>	241,880.2613	
<b>Easting (SFT)</b>	1,188,312.5282	
<b>Elevation (SFT)*</b>	309.793	

  

<b>Convergence Angle</b>	0	14	27.4361496
<b>Scale Factor</b>	0.999988069		
<b>Elevation Adjust. Factor</b>	0.9999851818		
<b>Combined Adjust. Factor</b>	0.9999732510		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North end of the island	15	40.00	131.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230027A	<b>Date Monumented</b> 1/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> I-40	<b>Job Number:</b> 012119,080388
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	74,119.2560	
<b>Easting (M)</b>	362,367.6900	
<b>Elevation (M)*</b>	101.536	
<b>Northing (SFT)</b>	243,172.9257	
<b>Easting (SFT)</b>	1,188,867.9963	
<b>Elevation (SFT)*</b>	333.122	

  

<b>Convergence Angle</b>	0	14	23.5889482
<b>Scale Factor</b>	0.999987440		
<b>Elevation Adjust. Factor</b>	0.9999840660		
<b>Combined Adjust. Factor</b>	0.9999715062		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	8 INCH ELM TREE	28	20.70	67.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    0    2.5659180
<b>Longitude</b>	92    24    44.0870292
<b>Ellipsoid Height (M):</b>	73.983
<b>Geoid Height (M):</b>	-27.555

  

Location Description
To reach the station from the jct I-40 and US-64 (exit-127) in Conway AR. Follow I-40 east 6.7 miles to the station on the left, on top of the bank in the median. The station is 0.2 miles north of the north end of the east bound weigh station, 67 feet east of the I-40 east bound center line. The station mark is a standard 2.5 inch cap stamped "230027A 2010" set on top of a 4 foot rebar driven 0.2 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230028	<b>Date Monumented</b> 1/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> NA	<b>Job Number:</b> 012119,080388,080496
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	85,041.0411				
<b>Easting (M)</b>	360,718.2320				
<b>Elevation (M)*</b>	102.876				
<b>Northing (SFT)</b>	279,005.4823				
<b>Easting (SFT)</b>	1,183,456.3995				
<b>Elevation (SFT)*</b>	337.519				

  

<b>Convergence Angle</b>	0	15	2.5370287
<b>Scale Factor</b>	0.999971551		
<b>Elevation Adjust. Factor</b>	0.9999838557		
<b>Combined Adjust. Factor</b>	0.9999554071		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW end of overpass	105	5.80	19.0
<b>MK # 2</b>	West end of guard rail	265	21.60	70.9
<b>MK # 3</b>	Street light pole	131	15.80	51.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.

  

Location Description
To reach the station from jct. I-40 & US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.4 miles to the station on the Left. The station is on top of North-West bank of Siebenmorgen overpass over I-40, 22 feet North of the centerline of Siebenmorgen Rd., 6.3 feet South-West of a R/W chain link fence and 6.3 feet South-West of a witness post. The station is a standard 2.5 inch cap stamped "230028 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.

  

<b>AZ Mark Station</b>	230028A
<b>Geodetic Azimuth</b>	269 00 43
<b>Grid Azimuth</b>	269 15 46

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230028A	<b>Date Monumented</b> 1/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> NA	<b>Job Number:</b> 012119, 080388, 080496
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	85,034.1241
<b>Easting (M)</b>	360,180.7390
<b>Elevation (M)*</b>	101.756
<b>Northing (SFT)</b>	278,982.7888
<b>Easting (SFT)</b>	1,181,692.9745
<b>Elevation (SFT)*</b>	333.844

  

<b>Convergence Angle</b>	0 15 14.8855913
<b>Scale Factor</b>	0.999971563
<b>Elevation Adjust. Factor</b>	0.9999840314
<b>Combined Adjust. Factor</b>	0.9999555949

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>		3rd Order - Digital Level	
<b>Elevation Datum:</b>		NAVD 88	
<b>Geoid Datum:</b>			
<b>Latitude</b>	35 5	56.4464508	
<b>Longitude</b>	92 26	12.2408700	
<b>Ellipsoid Height (M):</b>	73.937		
<b>Geoid Height (M):</b>	-27.819		

  

<b>Location Description</b>
<p>To reach the station from jct. I-40 &amp; US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.1 miles to the station on the Right. 30 feet South of the centerline of Siebenmorgen Rd., 61 feet West of the centerline of Sutton St., 13.5 feet North of an iron fence and 13.5 feet North of a witness post. The station is a standard 2.5 inch cap stamped "230028A 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Brick fence corner	178	4.00	13.1
<b>MK # 2</b>	Power pole	29	25.90	85.0
<b>MK # 3</b>	South end of a concrete culvert	278	23.20	76.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230029	<b>Date Monumented</b> 3/23/2010	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 287	<b>Job Number:</b> 080384
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,278.0851	
<b>Easting (M)</b>	374,804.5740	
<b>Elevation (M)*</b>	105.202	
<b>Northing (SFT)</b>	292,906.5175	
<b>Easting (SFT)</b>	1,229,671.3399	
<b>Elevation (SFT)*</b>	345.150	

  

<b>Convergence Angle</b>	0	9	39.1650710
<b>Scale Factor</b>	0.999966107		
<b>Elevation Adjust. Factor</b>	0.9999834906		
<b>Combined Adjust. Factor</b>	0.9999495982		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	42	10.36	34.0
MK # 2	FENCE CORNER	290	17.68	58.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	ARLR	Ref Mon # 3	ARHR	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.</td> </tr> </table>	Comments	ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.
Ref Mon # 1	ARBT								
Ref Mon # 2	ARLR								
Ref Mon # 3	ARHR								
Comments									
ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.									

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.45 MILES TO THE STATION MARK ON THE RIGHT, 15 FEET SOUTH OF AN ASPHALT TURN IN, 54 FEET SOUTH OF AN ASPHALT DRIVE, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 22.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	290029A
<b>Geodetic Azimuth</b>	1 13 27
<b>Grid Azimuth</b>	1 23 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230029A	<b>Date Monumented</b> 3/23/2010	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 287	<b>Job Number:</b> 080384
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,813.2971	
<b>Easting (M)</b>	374,817.5150	
<b>Elevation (M)*</b>	104.068	
<b>Northing (SFT)</b>	294,662.4589	
<b>Easting (SFT)</b>	1,229,713.7971	
<b>Elevation (SFT)*</b>	341.431	

  

<b>Convergence Angle</b>	0	9	38.9021271
<b>Scale Factor</b>	0.999965459		
<b>Elevation Adjust. Factor</b>	0.9999836685		
<b>Combined Adjust. Factor</b>	0.9999491281		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.1 MILES TO THE STATION MARK ON THE RIGHT, EAST 14.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 25.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONC AHTD RIGHT OF WAY MARKER	331	32.31	106.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARBT</p> <p>Ref Mon # 3    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230030	<b>Date Monumented</b> 5/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> Camp from	<b>Job Number:</b> 080397
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	87,317.8624	0.0087	
<b>Easting (M)</b>	358,057.0668	0.0073	
<b>Elevation (M)*</b>	119.145	0.0012	
<b>Northing (SFT)</b>	286,475.3536		
<b>Easting (SFT)</b>	1,174,725.5600		
<b>Elevation (SFT)*</b>	390.895		

  

<b>Convergence Angle</b>	0	16	3.9235060
<b>Scale Factor</b>	0.999968619		
<b>Elevation Adjust. Factor</b>	0.9999813026		
<b>Combined Adjust. Factor</b>	0.9999499222		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	SW corner of DI	356	5.18	17.0		
MK # 2	NW corner of Bridge over I-40	97	18.29	60.0		
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Ref Mon # 2 Earnhart Hale	
Ref Mon # 3 ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230030A	<b>Date Monumented</b> 5/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> I-40	<b>Job Number:</b> 080397
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	87,251.1880	0.0092			
<b>Easting (M)</b>	357,672.9811	0.0077			
<b>Elevation (M)*</b>	112.099	0.0012			
<b>Northing (SFT)</b>	286,256.6060				
<b>Easting (SFT)</b>	1,173,465.4388				
<b>Elevation (SFT)*</b>	367.778				

  

<b>Convergence Angle</b>	0	16	12.7431254
<b>Scale Factor</b>	0.999968706		
<b>Elevation Adjust. Factor</b>	0.9999824083		
<b>Combined Adjust. Factor</b>	0.9999511149		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	321	16.46	54.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Ref Mon # 2 Earnhart Hale	
Ref Mon # 3 ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230031	<b>Date Monumented</b> 5/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> Highway 2	<b>Job Number:</b> 080397
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	89,956.8835	0.0089	
<b>Easting (M)</b>	359,327.2172	0.0075	
<b>Elevation (M)*</b>	93.027	0.0023	
<b>Northing (SFT)</b>	295,133.5419		
<b>Easting (SFT)</b>	1,178,892.7118		
<b>Elevation (SFT)*</b>	305.207		

  

<b>Convergence Angle</b>	0	15	35.0085130
<b>Scale Factor</b>	0.999965355		
<b>Elevation Adjust. Factor</b>	0.9999854012		
<b>Combined Adjust. Factor</b>	0.9999507567		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	twin 18" cedar tree		229		24.99	82.0
MK # 2	18" sycamore tree		139		26.82	88.0
MK # 3	SW end of concrete drainage ditch		98		17.68	58.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> Earnhart Hale	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230031A	<b>Date Monumented</b> 5/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Faulkner	<b>Route</b> Highway 2	<b>Job Number:</b> 080397
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	90,650.4091	0.0094	
<b>Easting (M)</b>	359,735.7734	0.0077	
<b>Elevation (M)*</b>	86.119	0.0025	
<b>Northing (SFT)</b>	297,408.8839		
<b>Easting (SFT)</b>	1,180,233.1166		
<b>Elevation (SFT)*</b>	282.540		

  

<b>Convergence Angle</b>	0	15	25.6880734
<b>Scale Factor</b>	0.999964525		
<b>Elevation Adjust. Factor</b>	0.9999864854		
<b>Combined Adjust. Factor</b>	0.9999510109		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the intersection of Highway 25 and Highway 64 in Conway, go in a northeasterly direction for 3.5 miles to the station on the right, 31 feet east of the centerline of Highway 25, 2 feet west of a witness post and 17 feet south of the center of a paved driveway to a field entrance. The station is a standard 2 1/2" AHTD cap stamped "2011 230031A", set on top of a 4 foot rebar and driven 0.2 inches below ground level.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Earnhart Hale</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARFY	Ref Mon # 3	Earnhart Hale	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.         </td> </tr> </table>	Comments	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARFY								
Ref Mon # 3	Earnhart Hale								
Comments									
ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230032	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 124/285	<b>Job Number:</b> 080426
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	110,347.1267	
<b>Easting (M)</b>	358,439.8491	
<b>Elevation (M)*</b>	132.888	
<b>Northing (SFT)</b>	362,030.5315	
<b>Easting (SFT)</b>	1,175,981.4049	
<b>Elevation (SFT)*</b>	435.982	

  

<b>Convergence Angle</b>	0	15	57.5836518
<b>Scale Factor</b>	0.999945949		
<b>Elevation Adjust. Factor</b>	0.9999791461		
<b>Combined Adjust. Factor</b>	0.9999250962		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF ROCK MONUMENT	123	4.27	14.0
MK # 2	FIRE HYDRANT	220	12.50	41.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HANDHELD 35-19-38 92-27-26
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230032A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 124	<b>Job Number:</b> 080426
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	110,306.7384	
<b>Easting (M)</b>	358,024.3520	
<b>Elevation (M)*</b>	135.065	
<b>Northing (SFT)</b>	361,898.0242	
<b>Easting (SFT)</b>	1,174,618.2282	
<b>Elevation (SFT)*</b>	443.127	

  

<b>Convergence Angle</b>	0	16	7.1525796
<b>Scale Factor</b>	0.999945979		
<b>Elevation Adjust. Factor</b>	0.9999788043		
<b>Combined Adjust. Factor</b>	0.9999247844		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	271	22.09	72.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HANDHELD 35-19-36 92-27-41
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	35 19 36.2161164
<b>Longitude</b>	92 27 42.0622596
<b>Ellipsoid Height (M):</b>	107.014
<b>Geoid Height (M):</b>	-28.038

Location Description
<p>TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO WEST ON HIGHWAY 124 .25 MILES TO THE STATION ON THE RIGHT. NORTH 26.8 FEET OF THE CENTER OF A DRIVEWAY, NORTH 29.6 FEET OF THE CENTERLINE OF HIGHWAY 124 WEST, SOUTH 11.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230033	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 080426
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	105,911.6216		
<b>Easting (M)</b>	356,924.3250		
<b>Elevation (M)*</b>	100.799		
<b>Northing (SFT)</b>	347,478.3785		
<b>Easting (SFT)</b>	1,171,009.2229		
<b>Elevation (SFT)*</b>	330.704		

  

<b>Convergence Angle</b>	0	16	32.0106679
<b>Scale Factor</b>	0.999949309		
<b>Elevation Adjust. Factor</b>	0.9999841816		
<b>Combined Adjust. Factor</b>	0.9999334914		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO SOUTH ON HIGHWAY 285 2.95 MILES TO THE STATION ON THE RIGHT. SOUTH 73.2 FEET FROM THE CENTERLINE OF A PAVED FIELD ROAD ENTERANCE, WEST 38.0 OF THE CENTERLINE OF HIGHWAY 285 AND EAST 18.3 FEET OF A WITNESS POST, THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE TO FIELD	290	8.53	28.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  HANDHELD 35-17-13 92-28-24
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230033A	<b>Date Monumented</b> 10/4/2011	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 285	<b>Job Number:</b> 080426
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	105,641.4109				
<b>Easting (M)</b>	357,124.1976				
<b>Elevation (M)*</b>	98.956				
<b>Northing (SFT)</b>	346,591.8623				
<b>Easting (SFT)</b>	1,171,664.9716				
<b>Elevation (SFT)*</b>	324.658				

  

<b>Convergence Angle</b>	0	16	27.3779865
<b>Scale Factor</b>	0.999949528		
<b>Elevation Adjust. Factor</b>	0.9999844708		
<b>Combined Adjust. Factor</b>	0.9999339996		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	297	9.42	30.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	HANDHELD 35-17-04 92-28-17  <div style="height: 100px; border: 1px solid black;"></div>

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid09		
<b>Latitude</b>	35	17	4.6901904
<b>Longitude</b>	92	28	16.8198420
<b>Ellipsoid Height (M):</b>	70.882		
<b>Geoid Height (M):</b>	-28.076		

  

Location Description
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO SOUTH ON HIGHWAY 285 3.20 MILES TO THE STATION ON THE RIGHT. EAST 70.5 OF PAVED ROAD TO ARKANSAS GAME AND FISH COMM. HWY 285 ACCESS ENTERANCE, SOUTHWEST 73.8 OF THE CENTERLINE OF HIGHWAY 285 AND NORTHEAST 18.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230033A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230034	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 64	<b>Job Number:</b> 012154Mobie LiDAR-CLS
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 85,305.2469		<b>Geoid Datum:</b> Geoid 09
<b>Easting (M)</b> 387,804.8165		<b>Latitude</b> 35 6 7.8412860
<b>Elevation (M)*</b> 99.934		<b>Longitude</b> 92 8 1.5372888
<b>Northing (SFT)</b> 279,872.2975		<b>Ellipsoid Height (M):</b> 72.418
<b>Easting (SFT)</b> 1,272,322.9688		<b>Geoid Height (M):</b> -27.534
<b>Elevation (SFT)*</b> 327.866		

  

<b>Convergence Angle</b>	0	4	40.2061285
<b>Scale Factor</b>	0.999971100		
<b>Elevation Adjust. Factor</b>	0.9999843174		
<b>Combined Adjust. Factor</b>	0.9999554178		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HANDHELD, 35-06-08, 92-08-01, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230035	<b>Date Monumented</b> 4/9/2013	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 89	<b>Job Number:</b> 080457
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	69,755.1076	0.0030			
<b>Easting (M)</b>	359,714.6785	0.0030			
<b>Elevation (M)*</b>	90.710				
<b>Northing (SFT)</b>	228,854.8822				
<b>Easting (SFT)</b>	1,180,163.9077				
<b>Elevation (SFT)*</b>	297.603				

  

<b>Convergence Angle</b>	0	15	24.0210178
<b>Scale Factor</b>	0.999994629		
<b>Elevation Adjust. Factor</b>	0.9999857649		
<b>Combined Adjust. Factor</b>	0.9999803940		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	263	8.41	27.6
MK # 2	EAST END 24" CMP	250	15.45	50.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARBT	ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 P777	
Ref Mon # 3 230019	

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.25 MILES TO THE STATION MARK ON THE RIGHT, NORTH 47.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND AT THE SOUTHEAST CORNER OF THE NORTHSIDE APOSTOLIC CHURCH PARKING LOT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	230035A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230035A	<b>Date Monumented</b> 4/9/2013	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 89	<b>Job Number:</b> 080457
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	69,746.2385	0.0030	
<b>Easting (M)</b>	359,148.5177	0.0030	
<b>Elevation (M)*</b>	86.347		
<b>Northing (SFT)</b>	228,825.7841		
<b>Easting (SFT)</b>	1,178,306.4285		
<b>Elevation (SFT)*</b>	283.289		

  

<b>Convergence Angle</b>	0	15	37.0058997
<b>Scale Factor</b>	0.999994648		
<b>Elevation Adjust. Factor</b>	0.9999864496		
<b>Combined Adjust. Factor</b>	0.9999810976		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	95	28.96	95.0
MK # 2	NORTHWEST CORNER OF 1-S-FRAME HOUSE	154	17.37	57.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARBT	ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2: P777	
Ref Mon # 3: 230019	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 57 40.2060240
<b>Longitude</b>	92 26 50.2548612
<b>Ellipsoid Height (M):</b>	58.858 0.0107
<b>Geoid Height (M):</b>	-27.489

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.55 MILES TO THE STATION MARK ON THE LEFT, SOUTH 35.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND 14.5 FEET WEST OF A DRIVE WAY AND 15.7 FEET EAST OF ANOTHER DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230036	<b>Date Monumented</b> 4/29/2015	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 012227
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	107,648.0231	0.0030			
<b>Easting (M)</b>	367,041.6284	0.0030			
<b>Elevation (M)*</b>	195.193				
<b>Northing (SFT)</b>	353,175.2225				
<b>Easting (SFT)</b>	1,204,202.4092				
<b>Elevation (SFT)*</b>	640.396				

  

<b>Convergence Angle</b>	0	12	39.1639723
<b>Scale Factor</b>	0.999947905		
<b>Elevation Adjust. Factor</b>	0.9999693688		
<b>Combined Adjust. Factor</b>	0.9999172754		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER BARN	277	89.90	294.9
<b>MK # 2</b>	FENCE CORNER	247	102.00	334.6
<b>MK # 3</b>	POWER POLE	30	94.60	310.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	*NOTE: THIS MONUMENT REPLACES 230006 THAT WAS DESTROYED IN PREVIOUS HWY. WIDENING. M 68 WAS ALSO DESTROYED FROM PREVIOUS HWY. WIDENING JOB. FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. ON 230006A. ELEV. BASED ON DIGITAL LEVELS FROM GPS # 230006A WHICH WAS BASED ON 3 WR LEVEL RUN FROM NGS 2ND ORDER BM M 68. QUALITY OF ELEV. ON 230006A WAS VERIFIED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND

  

Location Description	
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND STATE HIGHWAY 65, NORTH OF GREENBRIER, GO NORTH ON HIGHWAY 25 3.1 MILES TO THE MARK ON THE LEFT, WEST 22.1 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230036" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	230006A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230037	<b>Date Monumented</b> 4/29/2015	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 012227
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	110,109.2310	0.0030	
<b>Easting (M)</b>	370,585.2099	0.0030	
<b>Elevation (M)*</b>	209.087		
<b>Northing (SFT)</b>	361,250.0354		
<b>Easting (SFT)</b>	1,215,828.3095		
<b>Elevation (SFT)*</b>	685.978		

  

<b>Convergence Angle</b>	0	11	17.7279204
<b>Scale Factor</b>	0.999946083		
<b>Elevation Adjust. Factor</b>	0.9999671886		
<b>Combined Adjust. Factor</b>	0.9999132733		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	310	32.90	107.9
MK # 2	MANHOLE	71	99.20	325.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

  

Location Description	
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.5 MILES TO THE MARK ON THE RIGHT, NORTH 54.2 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	230037A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230037A	<b>Date Monumented</b> 4/29/2015	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 012227
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	109,947.2883	0.0020			
<b>Easting (M)</b>	371,040.3005	0.0020			
<b>Elevation (M)*</b>	211.842				
<b>Northing (SFT)</b>	360,718.7284				
<b>Easting (SFT)</b>	1,217,321.3859				
<b>Elevation (SFT)*</b>	695.018				

  

<b>Convergence Angle</b>	0	11	7.2304646
<b>Scale Factor</b>	0.999946197		
<b>Elevation Adjust. Factor</b>	0.9999667562		
<b>Combined Adjust. Factor</b>	0.9999129550		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	208	28.80	94.5
MK # 2	GUY WIRE	210	3.00	9.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 19 26.2254612
<b>Longitude</b>	92 19 6.6428328
<b>Ellipsoid Height (M):</b>	183.986 0.0060
<b>Geoid Height (M):</b>	-27.849 0.0060

  

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.2 MILES TO THE MARK ON THE RIGHT, NORTH 87 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230038	<b>Date Monumented</b> 2/18/2016	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> 365	<b>Job Number:</b> 061507
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	63,773.6449	0.0020			
<b>Easting (M)</b>	359,194.2589	0.0020			
<b>Elevation (M)*</b>	83.627				
<b>Northing (SFT)</b>	209,230.7000				
<b>Easting (SFT)</b>	1,178,456.4977				
<b>Elevation (SFT)*</b>	274.365				

  

<b>Convergence Angle</b>	0	15	35.3355438
<b>Scale Factor</b>	1.000005217		
<b>Elevation Adjust. Factor</b>	0.9999868764		
<b>Combined Adjust. Factor</b>	0.9999920934		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89, IN MAYFLOWER, GO EAST ON HIGHWAY 365 3.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 31 FEET AND NORTHEAST OF THE CENTERLINE OF AN ASPHALT ROAD APRON 18 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 230038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE W/2 TELEPHONE BOXES	313		
MK # 2		25		
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR, P777	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM T 290 IN FEB. 2016 FOR JOB #061507.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230039	<b>Date Monumented</b> 3/20/2017	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> US-64	<b>Job Number:</b> 080563
--------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	83,520.3529	0.0020			
<b>Easting (M)</b>	368,781.1469	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	274,016.3578				
<b>Easting (SFT)</b>	1,209,909.4795				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	11	57.1638821
<b>Scale Factor</b>	0.999973547		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	R/W MARKER	28	13.40	44.0
<b>MK # 2</b>	CTR OF H/W	275	37.80	124.0
<b>MK # 3</b>	CULVERT	240	8.50	27.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & NGS 2ND ORDER BM U 333.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> P777	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    5    8.4287616
<b>Longitude</b>	92    20    32.4539556
<b>Ellipsoid Height (M):</b>	63.749    0.0050
<b>Geoid Height (M):</b>	-27.807    0.0050

Location Description
<p>TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.21 MILES TO THE STATION ON THE RIGHT, 44' NORTH OF THE C/L OF THE HIGHWAY AND 38' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230039A	<b>Date Monumented</b> 3/20/2017	<b>Monumented By</b> AHTD	<b>County</b> FAULKNER	<b>Route</b> US-64	<b>Job Number:</b> 080563
---------------------------	-------------------------------------	------------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	83,513.0242    0.0020
<b>Easting (M)</b>	369,324.4200    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	273,992.3136	
<b>Easting (SFT)</b>	1,211,691.8680	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	44.6832589
<b>Scale Factor</b>	0.999973554		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 1.9 MILES TO THE STATION ON THE LEFT, 45' SOUTH OF THE C/L OF THE HIGHWAY AND 28' NORTH OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	123	15.80	51.8
MK # 2	COMBINATION POLE	255	32.60	107.0
MK # 3				

  

<b>AZ Mark Station</b>	230039
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARLR</p> <p>Ref Mon # 3    P777</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p style="margin: 5px 0;">GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR &amp; NGS 2ND ORDER BM U 333.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240001	<b>Date Monumented</b> 5/2/1991	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 1648, 040621
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	151,702.3814	0.0030	
<b>Easting (M)</b>	235,328.2477	0.0030	
<b>Elevation (M)*</b>	227.115		
<b>Northing (SFT)</b>	497,710.2296		
<b>Easting (SFT)</b>	772,072.7593		
<b>Elevation (SFT)*</b>	745.126		

  

<b>Convergence Angle</b>	-1	3	31.3895165
<b>Scale Factor</b>	0.999937538		
<b>Elevation Adjust. Factor</b>	0.9999643595		
<b>Combined Adjust. Factor</b>	0.9999018998		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	41	13.2900000
<b>Longitude</b>	93	49	9.9146388
<b>Ellipsoid Height:</b>	198.730		
<b>Grid Northing (Meters)</b>	151,702.3822		
<b>Grid Easting (Meters)</b>	235,328.2434		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN COMBINATION POLE	15			49.52	162.5
MK # 2	NBC IN COMBINATION POLE	142			19.22	63.1
MK # 3	NBC IN POWER POLE	212			66.83	219.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240002	<b>Date Monumented</b> 5/2/1991	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 1648, 040621
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	152,020.5513	0.0030			
<b>Easting (M)</b>	235,338.8859	0.0030			
<b>Elevation (M)*</b>	228.261				

  

<b>Northing (SFT)</b>	498,754.0921				
<b>Easting (SFT)</b>	772,107.6615				
<b>Elevation (SFT)*</b>	748.887				

  

<b>Convergence Angle</b>	-1	3	31.2794056		
<b>Scale Factor</b>	0.999937629				
<b>Elevation Adjust. Factor</b>	0.9999641797				
<b>Combined Adjust. Factor</b>	0.9999018109				

  

<b>SUPERCEDED CONTROL</b>					
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Latitude</b>	35	41	23.6186340		
<b>Longitude</b>	93	49	9.7253868		
<b>Ellipsoid Height:</b>	199.879				
<b>Grid Northing (Meters)</b>	152,020.5521				
<b>Grid Easting (Meters)</b>	235,338.8822				

  

<b>Location Description</b>					
FROM THE MULBERRY RIVER BRIDGE, GO 1.90 MILES NORTH ON HWY. 23 TO THE FOURTH ENTRANCE TO JOB CORPS CENTER. THE STATION IS 44.70 FEET LEFT OF THE CENTERLINE OF THE DRIVE TO STAFF HOUSING, 96 FEET FROM THE CENTERLINE OF HWY. 23 AND 1.35 FEET EAST OF A WITNESS POST.					

  

<b>Location Reference Marks</b>					
<b>Description</b>			<b>Azimuth</b>	<b>Distance</b>	
				<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>	NBC IN COMBINATION POLE		31	24.38	80.0
<b>MK # 2</b>	NBC IN COMBINATION POLE		174	76.60	251.3
<b>MK # 3</b>	NBC IN POWER POLE		213	33.54	110.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240003	<b>Date Monumented</b> 5/7/1991	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 83	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	151,404.8740	
<b>Easting (M)</b>	241,784.8090	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	496,734.1574	
<b>Easting (SFT)</b>	793,255.6609	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	1.8597869
<b>Scale Factor</b>	0.999937488		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 4.75 MILES TO A CONCRETE BRIDGE AND TURN RIGHT AT THE END OF THE BRIDGE ONTO A FIELD ROAD, FOLLOW FIELD ROAD FOR 0.10 MILES TO THE STATION ON THE RIGHT. THE STATION IS 230 FEET FROM THE CENTERLINE OF THE CO. RD. AND 1.85 FEET NORTH OF A WITNESS POST.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	347	151.55	497.2
MK # 2	NBC IN COMBINATION POLE	348	59.52	195.3
MK # 3	NBC IN 26" SWEET GUM	243	41.30	135.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="OZARPORT"/> <b>Ref Mon # 2</b> <input type="text" value="CLARPORT"/> <b>Ref Mon # 3</b> <input type="text" value="NONE"/>	OLD PN: 91240003

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240004	<b>Date Monumented</b> 5/7/1991	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 83	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 150,724.4450		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 242,309.1210		<b>Latitude</b> 35 40 45.6593844
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 44 31.6172652
<b>Northing (SFT)</b> 494,501.7833		<b>Ellipsoid Height (M):</b> 217.302
<b>Easting (SFT)</b> 794,975.8411		<b>Geoid Height (M):</b> -28.975
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 0 49.4486180	<b>Location Description</b>  FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 5.30 MILES TO THE ENTRANCE TO BYRDS CANOE RENTAL, GO 612.74 FEET DOWN DRIVE TO STATION ON THE RIGHT THE STATION IS 93.64 FEET RIGHT OF THE DRIVE TO BYRDS CANOE RENTAL AND 9.22 FEET FROM A WITNESS POST.
<b>Scale Factor</b> 0.999937308	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	280	2.81	9.2
<b>MK # 2</b>	NBC IN COMBINATION POLE	15	113.64	372.8
<b>MK # 3</b>	NBC IN 18" PINE	34	72.76	238.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> OZARPORT <b>Ref Mon # 2</b> CLARPORT <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91240004
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240005	<b>Date Monumented</b> 5/7/1991	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 83	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	150,582.3540	
<b>Easting (M)</b>	245,911.9420	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	494,035.6064	
<b>Easting (SFT)</b>	806,796.0964	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	26.0282969
<b>Scale Factor</b>	0.999937287		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF BARN	60	29.31	96.2
MK # 2	TOP OF SW BOLT ON WELL CURBING	89	63.69	208.9
MK # 3	NBC IN 30" OAK	111	43.11	141.4

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	OZARPORT	Ref Mon # 2	CLARPORT	Ref Mon # 3	NONE	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91240005</td> </tr> </table>	Comments	OLD PN: 91240005
Ref Mon # 1	OZARPORT								
Ref Mon # 2	CLARPORT								
Ref Mon # 3	NONE								
Comments									
OLD PN: 91240005									

  

Location Description	
FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 8.05 MILES ON CO. RD. TO A FIELD ENTRANCE ON THE RIGHT, GO SOUTHWEST THROUGH FIELD PAST SMALL BARN. THE STATION IS 2.4 FEET NORTHWEST OF A WITNESS POST AND JUST WEST OF THE JOHNSON COUNTY LINE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240006	<b>Date Monumented</b> 9/8/1998	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 22	<b>Job Number:</b> 40148
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	109,649.7201	
<b>Easting (M)</b>	223,667.8470	
<b>Elevation (M)*</b>	149.882	
<b>Northing (SFT)</b>	359,742.4567	
<b>Easting (SFT)</b>	733,816.9280	
<b>Elevation (SFT)*</b>	491.738	

  

<b>Convergence Angle</b>	-1	7	42.0405700
<b>Scale Factor</b>	0.999947656		
<b>Elevation Adjust. Factor</b>	0.9999764792		
<b>Combined Adjust. Factor</b>	0.9999241364		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	263	18.32	60.1
MK # 2	COMBINATION POLE	87	47.73	156.6
MK # 3				

  

<b>AZ Mark Station</b>	240006A
<b>Geodetic Azimuth</b>	90 22 05.071073
<b>Grid Azimuth</b>	91 29 47.079695

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	
Ref Mon # 2 AHTD FS2	
Ref Mon # 3 Q 299	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240006A	<b>Date Monumented</b> 9/8/1998	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 22	<b>Job Number:</b> 40148
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	109,639.0641				
<b>Easting (M)</b>	224,075.7520				
<b>Elevation (M)*</b>	148.847				
<b>Northing (SFT)</b>	359,707.4961				
<b>Easting (SFT)</b>	735,155.1964				
<b>Elevation (SFT)*</b>	488.342				

  

<b>Convergence Angle</b>	-1	7	32.6415460
<b>Scale Factor</b>	0.999947658		
<b>Elevation Adjust. Factor</b>	0.9999766416		
<b>Combined Adjust. Factor</b>	0.9999243008		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CABLE MARKED SIGN	166	5.90	19.4
<b>MK # 2</b>	COMBINATION POLE	101	20.55	67.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OZARPORT	
<b>Ref Mon # 2</b> AHTD FS2	
<b>Ref Mon # 3</b> Q 299	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 18 21.6600624
<b>Longitude</b>	93 56 4.5087108
<b>Ellipsoid Height (M):</b>	119.122
<b>Geoid Height (M):</b>	-29.694

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO EAST ON STATE HIGHWAY 22 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.23 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 22 And 5.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240006A 1998" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240007	<b>Date Monumented</b> 9/8/1998	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 41	<b>Job Number:</b> 40148
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	115,797.1090	
<b>Easting (M)</b>	224,237.8950	
<b>Elevation (M)*</b>	129.025	
<b>Northing (SFT)</b>	379,911.0151	
<b>Easting (SFT)</b>	735,687.1605	
<b>Elevation (SFT)*</b>	423.310	

  

<b>Convergence Angle</b>	-1	7	31.6935255
<b>Scale Factor</b>	0.999943448		
<b>Elevation Adjust. Factor</b>	0.9999797522		
<b>Combined Adjust. Factor</b>	0.9999232013		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	67	23.98	78.7
<b>MK # 2</b>	POWER POLE	100	23.24	76.2
<b>MK # 3</b>	CABLE MARKER SIGN	180	59.44	195.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OZARPORT	
<b>Ref Mon # 2</b> AHTD FS2	
<b>Ref Mon # 3</b> Q 299	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 21 41.5520820
<b>Longitude</b>	93 56 2.8795272
<b>Ellipsoid Height (M):</b>	99.470
<b>Geoid Height (M):</b>	-29.544

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 60, LOCATED ABOUTH 6.44 KM (4.00 MI) NORTH OF BRANCH, GO NORTH ON STATE HIGHWAY 41FOR 0.17 KM (0.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.613 METERS WEST OF THE CENTER OF STATE HIGHWAY 41 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "240007 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240007A	<b>Date Monumented</b> 9/8/1998	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 41	<b>Job Number:</b> 40148
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	115,320.9801				
<b>Easting (M)</b>	224,236.1520				
<b>Elevation (M)*</b>	132.199				
<b>Northing (SFT)</b>	378,348.9155				
<b>Easting (SFT)</b>	735,681.4420				
<b>Elevation (SFT)*</b>	433.723				

  

<b>Convergence Angle</b>	-1	7	31.5181332
<b>Scale Factor</b>	0.999943740		
<b>Elevation Adjust. Factor</b>	0.9999792541		
<b>Combined Adjust. Factor</b>	0.9999229953		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ROCK FENCE POST	25	3.86	12.7
MK # 2	ROCK FENCE POST	171	18.15	59.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 OZARPORT	
Ref Mon # 2 AHTD FS2	
Ref Mon # 3 Q 299	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 21 26.1037080
<b>Longitude</b>	93 56 2.5781136
<b>Ellipsoid Height (M):</b>	102.623
<b>Geoid Height (M):</b>	-29.557

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 60, LOCATED ABOUTH 6.44 KM (4.00 MI) NORTH OF BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 41 AND 1.855 METERS WEST OF A WITNESS POST SET IN A BARBED WIRE FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240007A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240008	<b>Date Monumented</b> 11/13/2000	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 41	<b>Job Number:</b> 004984
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,045.4931	
<b>Easting (M)</b>	223,130.6780	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	347,917.5886	
<b>Easting (SFT)</b>	732,054.5661	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	52.7725386
<b>Scale Factor</b>	0.999950560		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.26 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 41 AND 0.38 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD FS 2</p> <p>Ref Mon # 2    OZARPORT</p> <p>Ref Mon # 3    420006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240008A	<b>Date Monumented</b> 11/13/2000	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 41	<b>Job Number:</b> 004984
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,063.4421	
<b>Easting (M)</b>	222,612.2480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	347,976.4763	
<b>Easting (SFT)</b>	730,353.6836	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	8	4.7155031
<b>Scale Factor</b>	0.999950554		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF CMP	16	2.95	9.7
<b>MK # 2</b>	GATE POST	141	7.90	25.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS 2	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 420006	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 16 24.7173348
<b>Longitude</b>	93 56 59.6281560
<b>Ellipsoid Height (M):</b>	104.005
<b>Geoid Height (M):</b>	-29.789

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 41, 7.00 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.37 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240009	<b>Date Monumented</b> 11/17/2004	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040815
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	148,365.4927 0.0020
<b>Easting (M)</b>	234,379.5335 0.0020
<b>Elevation (M)*</b>	230.375
<b>Northing (SFT)</b>	486,762.4540
<b>Easting (SFT)</b>	768,960.1862
<b>Elevation (SFT)*</b>	755.822

  

<b>Convergence Angle</b>	-1 3 51.9081754
<b>Scale Factor</b>	0.999936734
<b>Elevation Adjust. Factor</b>	0.9999638480
<b>Combined Adjust. Factor</b>	0.9999005842

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFS	ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240009 SS	<b>Date Monumented</b> 11/17/2004	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040441, 040621, 040815
-----------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	148,365.4863    0.0030
<b>Easting (M)</b>	234,379.5217    0.0030
<b>Elevation (M)*</b>	230.375
<b>Northing (SFT)</b>	486,762.4330
<b>Easting (SFT)</b>	768,960.1474
<b>Elevation (SFT)*</b>	755.822

  

<b>Convergence Angle</b>	-1    3    51.9084456
<b>Scale Factor</b>	0.999936734
<b>Elevation Adjust. Factor</b>	0.9999638480
<b>Combined Adjust. Factor</b>	0.9999005842

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	39	24.4622736
<b>Longitude</b>	93	49	45.1772616
<b>Ellipsoid Height:</b>	201.891		
<b>Grid Northing (Meters)</b>	148,365.4989		
<b>Grid Easting (Meters)</b>	234,379.5020		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY, (SC)W H PHILLIPS	ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05.
Ref Mon # 2    ARHR, (SC)GAYLOR	
Ref Mon # 3    ARLR, (SC)OZARPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240009A	<b>Date Monumented</b> 11/17/2004	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040441, 040621, 040815
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	148,059.5168	0.0030			
<b>Easting (M)</b>	234,112.2467	0.0030			
<b>Elevation (M)*</b>	224.926				
<b>Northing (SFT)</b>	485,758.5980				
<b>Easting (SFT)</b>	768,083.2627				
<b>Elevation (SFT)*</b>	737.946				

  

<b>Convergence Angle</b>	-1	3	57.9591703
<b>Scale Factor</b>	0.999936674		
<b>Elevation Adjust. Factor</b>	0.9999647029		
<b>Combined Adjust. Factor</b>	0.9999013792		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	STEEL T POST	20	5.50	18.0
<b>MK # 2</b>	STEEL T POST	238	2.40	7.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	ELEVATION DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED. SUPERCEDED POSITIONS WERE SOMEHOW LOST. PLEASE REFER TO JOB #'s 040441 & 040621 CONTROL FILES FOR THOSE OLD POSITIONS.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARHR, ARRV	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 39 14.3741556
<b>Longitude</b>	93 49 55.5747060
<b>Ellipsoid Height (M):</b>	196.303 0.0090
<b>Geoid Height (M):</b>	-28.612 0.0090

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 13.94 MILES TO THE STATION ON THE LEFT, WEST NORTHWEST 9.25 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240010	<b>Date Monumented</b> 9/30/2013	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 72	<b>Job Number:</b> BR2404
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	134,658.7853	0.0040			
<b>Easting (M)</b>	222,856.5008	0.0040			
<b>Elevation (M)*</b>	212.675				
<b>Northing (SFT)</b>	441,793.0314				
<b>Easting (SFT)</b>	731,155.0364				
<b>Elevation (SFT)*</b>	697.752				

  

<b>Convergence Angle</b>	-1	8	12.1543715
<b>Scale Factor</b>	0.999936360		
<b>Elevation Adjust. Factor</b>	0.9999666254		
<b>Combined Adjust. Factor</b>	0.9999029875		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL	307	13.11	43.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: SAL5	Elevation based on Static Observation from NGS 1st Order BM P 296 to AHTD GPS #240010A & then 3rd Order Digital Levels from AHTD GPS #240010A to AHTD GPS #240010 by S5112 in Nov. 2013 for Job #BR2404.
Ref Mon # 2: CTA1	
Ref Mon # 3: P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240010A	<b>Date Monumented</b> 9/30/2013	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 72	<b>Job Number:</b> BR2404
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	134,064.0304	0.0040	
<b>Easting (M)</b>	222,818.3340	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	439,841.7397		
<b>Easting (SFT)</b>	731,029.8175		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	8	12.7632400
<b>Scale Factor</b>	0.999936451		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST WITH HINGE	301	123.70	405.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: SAL5	Elevation based on Static Observation from NGS 1st Order BM P 296
Ref Mon # 2: CTA1	
Ref Mon # 3: P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240011	<b>Date Monumented</b> 7/9/2015	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040693
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	156,689.6077	0.0050	
<b>Easting (M)</b>	236,037.9590	0.0040	
<b>Elevation (M)*</b>	557.335		
<b>Northing (SFT)</b>	514,072.4879		
<b>Easting (SFT)</b>	774,401.2038		
<b>Elevation (SFT)*</b>	1,828.525		

  

<b>Convergence Angle</b>	-1	3	17.0914128
<b>Scale Factor</b>	0.999939253		
<b>Elevation Adjust. Factor</b>	0.9999125435		
<b>Combined Adjust. Factor</b>	0.9998518019		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	331	23.60	77.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARM3	ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA*****
Ref Mon # 2: CTA1	
Ref Mon # 3: P777	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35 43 55.5126204
<b>Longitude</b>	93 48 45.3430188
<b>Ellipsoid Height (M):</b>	529.105 0.0005
<b>Geoid Height (M):</b>	-28.231 0.0005

Location Description
<p>TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 215 NORTH AND HIGHWAY 23, NORTH OF CASS, GO NORTH ON HIGHWAY 23 4.1 MILES TO THE MARK ON THE RIGHT, 11.0 FEET SOUTHWEST OF A WITNESS POST AND 35.4 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240011.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240011A	<b>Date Monumented</b> 7/9/2015	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040693
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	157,009.1613    0.0050
<b>Easting (M)</b>	236,081.2191    0.0040
<b>Elevation (M)*</b>	551.551
<b>Northing (SFT)</b>	515,120.8900
<b>Easting (SFT)</b>	774,543.1330
<b>Elevation (SFT)*</b>	1,809.548

  

<b>Convergence Angle</b>	-1    3    16.2259917
<b>Scale Factor</b>	0.999939383
<b>Elevation Adjust. Factor</b>	0.9999134511
<b>Combined Adjust. Factor</b>	0.9998528394

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	65	98.00	321.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARM3	ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA). ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA*****
Ref Mon # 2    CTA1	
Ref Mon # 3    P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240012	<b>Date Monumented</b> 7/9/2015	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040693
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	157,935.7582	0.0050	
<b>Easting (M)</b>	236,154.2660	0.0050	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	518,160.9000		
<b>Easting (SFT)</b>	774,782.7877		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	3	14.9294343
<b>Scale Factor</b>	0.999939777		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PARK MESSAGE BOARD/ WEST END	20	43.70	143.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARM3 Ref Mon # 2    CTA1 Ref Mon # 3    P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>*****USE WITH CAUTION, UNSTABLE AREA*****</td> </tr> </table>	Comments	*****USE WITH CAUTION, UNSTABLE AREA*****
Comments			
*****USE WITH CAUTION, UNSTABLE AREA*****			

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35 44 36.0100644
<b>Longitude</b>	93 48 41.6276352
<b>Ellipsoid Height (M):</b>	516.810 0.0050
<b>Geoid Height (M):</b>	-28.180 0.0050

Location Description
TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 235 AND HIGHWAY 16, WEST OF ST. PAUL, GO SOUTH ON HIGHWAY 23 5.5 MILES TO THE MARK ON THE LEFT, 2.8 FEET EAST OF A WITNESS POST AND 35.0 FEET EAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240012.

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240013	<b>Date Monumented</b> 7/9/2015	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040693
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	158,086.0269	0.0050			
<b>Easting (M)</b>	236,101.7337	0.0050			
<b>Elevation (M)*</b>	545.150				
<b>Northing (SFT)</b>	518,653.9066				
<b>Easting (SFT)</b>	774,610.4380				
<b>Elevation (SFT)*</b>	1,788.545				

  

<b>Convergence Angle</b>	-1	3	16.2099411
<b>Scale Factor</b>	0.999939842		
<b>Elevation Adjust. Factor</b>	0.9999144556		
<b>Combined Adjust. Factor</b>	0.9998543027		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 235 AND HIGHWAY 16, WEST OF ST. PAUL, GO SOUTH ON HIGHWAY 23 5.4 MILES TO THE MARK ON THE LEFT, 13.0 FEET SOUTHWEST OF A WITNESS POST AND 14.6 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240013.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARM3</p> <p>Ref Mon # 2    CTA1</p> <p>Ref Mon # 3    P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM E 93 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA*****</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240014	<b>Date Monumented</b> 5/9/2016	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 001725_SLIDE
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	133,193.9088	0.0030	
<b>Easting (M)</b>	230,821.4786	0.0030	
<b>Elevation (M)*</b>	169.496		
<b>Northing (SFT)</b>	436,987.0158		
<b>Easting (SFT)</b>	757,286.8010		
<b>Elevation (SFT)*</b>	556.087		

  

<b>Convergence Angle</b>	-1	5	7.5611746
<b>Scale Factor</b>	0.999936571		
<b>Elevation Adjust. Factor</b>	0.9999734013		
<b>Combined Adjust. Factor</b>	0.9999099740		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UC FOC	246	50.40	165.4
MK # 2	S END CB ISLAND	23	39.50	129.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.
Ref Mon # 2: ARLR	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240014A	<b>Date Monumented</b> 5/9/2016	<b>Monumented By</b> AHTD	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 001725_SLIDE
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	133,697.5531	0.0030	
<b>Easting (M)</b>	230,901.0196	0.0030	
<b>Elevation (M)*</b>	160.747		
<b>Northing (SFT)</b>	438,639.3888		
<b>Easting (SFT)</b>	757,547.7618		
<b>Elevation (SFT)*</b>	527.385		

  

<b>Convergence Angle</b>	-1	5	5.9446937
<b>Scale Factor</b>	0.999936485		
<b>Elevation Adjust. Factor</b>	0.9999747741		
<b>Combined Adjust. Factor</b>	0.9999112607		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S END 18" RCP	353	31.00	101.7
MK # 2	FH	60	47.00	154.2
MK # 3	NW COR. BLOCK BU	88	52.50	172.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARHR	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35   31   26.4731484
<b>Longitude</b>	93   51   52.4085696
<b>Ellipsoid Height (M):</b>	131.670   0.0080
<b>Geoid Height (M):</b>	-29.072   0.0080

Location Description
<p>TO REACH THE STA FROM JCT OF I-40 AND SR-23 (EXIT 35) N OF OZARK, GO N ON SR-23 0.15 MI TO STA ON RIGHT, 42'E OF C/L. THE STA IS A 2 1/2" ALUM CAP STAMPED "240014A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELOW SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240015	<b>Date Monumented</b> 1/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> IRE ROA	<b>Job Number:</b> BR7615
--------------------------	------------------------------------	-------------------------------	---------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 134,770.1569	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 215,465.9152	<b>0.0030</b>	<b>Latitude</b> 35 31 51.3541200
<b>Elevation (M)*</b>		<b>Longitude</b> 94 2 5.8199604
<b>Northing (SFT)</b> 442,158.4231		<b>Ellipsoid Height (M):</b> 94.268 0.0120
<b>Easting (SFT)</b> 706,907.7568		<b>Geoid Height (M):</b> -29.147 0.0120
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 11 2.8882471	<b>Scale Factor</b> 0.999936366	<b>Location Description</b>
<b>Elevation Adjust. Factor</b>		TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40, NORTH OF MULBERRY, GO NORTH ON HIGHWAY 215 0.15 MILES TO WIRE ROAD AND TURN RIGHT (EAST) AND GO 0.75 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE ROAD 20'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240015" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Combined Adjust. Factor</b>		
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	90	30.48	100.0	240015A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARDQ Ref Mon # 2    ARFS Ref Mon # 3    ARFY, ARRV	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240015A	<b>Date Monumented</b> 1/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> IRE ROAD	<b>Job Number:</b> BR7615
---------------------------	------------------------------------	-------------------------------	---------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	134,764.2242	0.0030	
<b>Easting (M)</b>	215,954.1777	0.0030	
<b>Elevation (M)*</b>	128.444		
<b>Northing (SFT)</b>	442,138.9589		
<b>Easting (SFT)</b>	708,509.6647		
<b>Elevation (SFT)*</b>	421.402		

  

<b>Convergence Angle</b>	-1	10	51.6093585
<b>Scale Factor</b>	0.999936365		
<b>Elevation Adjust. Factor</b>	0.9999798434		
<b>Combined Adjust. Factor</b>	0.9999162097		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40, NORTH OF MULBERRY, GO NORTH ON HIGHWAY 215 0.15 MILES TO WIRE ROAD AND TURN RIGHT (EAST) AND GO 1.0 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE ROAD 18.5'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240015A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	99	15.85	52.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARDQ</p> <p><b>Ref Mon # 2</b>    ARFS</p> <p><b>Ref Mon # 3</b>    ARFY, ARRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON DIGITAL LEVELS FROM ARDOT GPS POINT #240015 WHICH IS BASED ON GNSS STATIC DERIVED ELEVATION CONSTRAINING ARDOT CORS SITES ARFS, ARFY &amp; ARRV</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240016	<b>Date Monumented</b> 1/9/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 186	<b>Job Number:</b> 040780
--------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	124,934.9202	0.0020			
<b>Easting (M)</b>	240,085.1481	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	409,890.6507				
<b>Easting (SFT)</b>	787,679.3567				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	1	30.2302882
<b>Scale Factor</b>	0.999938807		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	134	16.61	54.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARDQ	
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 26 47.6679408
<b>Longitude</b>	93 45 41.7010104
<b>Ellipsoid Height (M):</b>	135.677 0.0090
<b>Geoid Height (M):</b>	-29.335 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO WEST ON HIGHWAY 64 131' TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240016A	<b>Date Monumented</b> 1/9/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 186	<b>Job Number:</b> 040780
---------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	124,976.2144	0.0020	
<b>Easting (M)</b>	240,513.8293	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	410,026.1301		
<b>Easting (SFT)</b>	789,085.7883		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	1	20.3570498
<b>Scale Factor</b>	0.999938789		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO EAST ON HIGHWAY 64 0.25 MILES' TO THE MARK ON THE LEFT, NORTH OF THE C/L OF THE HIGHWAY 29.4' AND 76' WEST OF MT. BETHEL DR. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						240016
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARDQ	
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240017	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 22	<b>Job Number:</b> 040874
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	108,732.6446	0.0030	
<b>Easting (M)</b>	212,855.9937	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	356,733.6848		
<b>Easting (SFT)</b>	698,345.0393		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	11	50.5938182
<b>Scale Factor</b>	0.999948535		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	END OF GUARD RAIL	340	2.38	7.8
<b>MK # 2</b>	COMBINATION POLE W/GUY	202	12.19	40.0
<b>MK # 3</b>	CENTER OF GATE	142	10.49	34.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY,ARRV	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 17 44.8723968
<b>Longitude</b>	94 3 27.8025048
<b>Ellipsoid Height (M):</b>	114.097 0.0070
<b>Geoid Height (M):</b>	-29.960 0.0070

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 1.05 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28.4". THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240017A	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 22	<b>Job Number:</b> 040874
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	108,874.0803	0.0030			
<b>Easting (M)</b>	213,317.1874	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	357,197.7118				
<b>Easting (SFT)</b>	699,858.1390				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	11	40.0418694
<b>Scale Factor</b>	0.999948416		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/ LIGHT	323	21.90	71.9
<b>MK # 2</b>	FENCE CORNER	278	48.50	159.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 17 49.7733216
<b>Longitude</b>	94 3 9.6688656
<b>Ellipsoid Height (M):</b>	116.410 0.0070
<b>Geoid Height (M):</b>	-29.951 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 0.75 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 50' AND 22.1' EAST OF THE C/L OF PARKS DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240018	<b>Date Monumented</b> 6/10/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040815
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	137,658.5406	0.0020	
<b>Easting (M)</b>	231,096.3662	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	451,634.7286		
<b>Easting (SFT)</b>	758,188.6614		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	5	3.1646692
<b>Scale Factor</b>	0.999936026		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	51	4.18	13.7
MK # 2	FENCE CORNER	136	7.89	25.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARFS	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240018A	<b>Date Monumented</b> 6/10/2020	<b>Monumented By</b> ARDOT	<b>County</b> FRANKLIN	<b>Route</b> 23	<b>Job Number:</b> 040815
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	138,065.5968	0.0020			
<b>Easting (M)</b>	231,129.0668	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	452,970.2122				
<b>Easting (SFT)</b>	758,295.9467				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	5	2.5871311
<b>Scale Factor</b>	0.999936001		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VENT PIPE	64	13.32	43.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFS	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   33   48.3262632
<b>Longitude</b>	93   51   46.6385616
<b>Ellipsoid Height (M):</b>	143.139   0.0060
<b>Geoid Height (M):</b>	-28.970   0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 352E, NORTH OF OZARK, GO NORTH ON HIGHWAY 23 1.25 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 156.6' NORTH OF THE C/L OF MATTOX ROAD. THE MARK IS 2 1/2" CAP STAMPED "2020 240018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250001	<b>Date Monumented</b> 1/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 342	<b>Job Number:</b> 050063,050230
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	237,565.0751	
<b>Easting (M)</b>	443,071.7850	
<b>Elevation (M)*</b>	184.390	
<b>Northing (SFT)</b>	779,411.4172	
<b>Easting (SFT)</b>	1,453,644.6813	
<b>Elevation (SFT)*</b>	604.952	

  

<b>Convergence Angle</b>	0	16	46.7188506
<b>Scale Factor</b>	1.000056343		
<b>Elevation Adjust. Factor</b>	0.9999710641		
<b>Combined Adjust. Factor</b>	1.0000274055		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRON PIPE GATE POST	183	2.76	9.0
<b>MK # 2</b>	IRON PIPE GATE POST	213	11.58	38.0
<b>MK # 3</b>	NORTH END CMP	290	5.57	18.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FAA 7M9 A	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.
<b>Ref Mon # 2</b> OR-01	
<b>Ref Mon # 3</b> Q 313	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250001A	<b>Date Monumented</b> 1/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 63	<b>Job Number:</b> 050063,050230
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	237,449.2992	
<b>Easting (M)</b>	443,416.5390	
<b>Elevation (M)*</b>	190.874	
<b>Northing (SFT)</b>	779,031.5758	
<b>Easting (SFT)</b>	1,454,775.7617	
<b>Elevation (SFT)*</b>	626.225	

  

<b>Convergence Angle</b>	0	16	54.7633593
<b>Scale Factor</b>	1.000056056		
<b>Elevation Adjust. Factor</b>	0.9999700466		
<b>Combined Adjust. Factor</b>	1.0000261009		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	271	20.70	67.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> FAA 7M9 A	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.
<b>Ref Mon # 2</b> OR-01	
<b>Ref Mon # 3</b> Q 313	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250002	<b>Date Monumented</b> 1/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 63	<b>Job Number:</b> 012157,050063
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	235,774.6246	
<b>Easting (M)</b>	445,248.0152	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	773,537.2475	
<b>Easting (SFT)</b>	1,460,784.5299	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	37.3685871
<b>Scale Factor</b>	1.000051980		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	27	26.5870944
<b>Longitude</b>	91	29	42.9009972
<b>Ellipsoid Height:</b>	182.996		
<b>Grid Northing (Meters)</b>	235,774.6091		
<b>Grid Easting (Meters)</b>	445,248.0040		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.168 METERS SOUTH OF THE CENTER OF A PAVED ROAD LEADING TO WIRTH, 13.728 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	359	29.46	96.6
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FAA 7M9 A</p> <p>Ref Mon # 2    OR-01</p> <p>Ref Mon # 3    Q 313</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM Q 308.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250002A	<b>Date Monumented</b> 1/11/1998	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 63	<b>Job Number:</b> 050063
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	235,357.6392	
<b>Easting (M)</b>	445,315.6390	
<b>Elevation (M)*</b>	218.810	
<b>Northing (SFT)</b>	772,169.1879	
<b>Easting (SFT)</b>	1,461,006.3923	
<b>Elevation (SFT)*</b>	717.879	

  

<b>Convergence Angle</b>	0	17	38.8987901
<b>Scale Factor</b>	1.000050981		
<b>Elevation Adjust. Factor</b>	0.9999656628		
<b>Combined Adjust. Factor</b>	1.0000166420		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.64 KM (2.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.60 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 13.10 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SOUTH END CMP	303	4.85	15.9		250002
MK # 2	NONE					351 04 50.25421
MK # 3	NONE					350 47 11.33925

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	
Ref Mon # 2 OR-01	
Ref Mon # 3 Q 313	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250003	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,440.0092	
<b>Easting (M)</b>	419,262.0095	
<b>Elevation (M)*</b>	200.025	
<b>Northing (SFT)</b>	736,350.2635	
<b>Easting (SFT)</b>	1,375,528.7762	
<b>Elevation (SFT)*</b>	656.249	

  

<b>Convergence Angle</b>	0	7	29.5461081
<b>Scale Factor</b>	1.000026579		
<b>Elevation Adjust. Factor</b>	0.9999686105		
<b>Combined Adjust. Factor</b>	0.9999951887		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 20.841 KM (12.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.60 METERS WEST OF THE CENTER LINE OF A PAVED DRIVE, 19.80 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.78 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250003 2001" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL, RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	EAST END CONCRETE HEADWALL	249	23.20	76.1	
<b>MK # 2</b>	TREATED WOODEN CORNER POST	76	6.20	20.3	
<b>MK # 3</b>	BRICK GATE POST	90	21.00	68.9	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FAA 7M9 A</p> <p><b>Ref Mon # 2</b>    330001</p> <p><b>Ref Mon # 3</b>    CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250003A	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	224,468.3191	
<b>Easting (M)</b>	418,723.3169	
<b>Elevation (M)*</b>	200.105	
<b>Northing (SFT)</b>	736,443.1436	
<b>Easting (SFT)</b>	1,373,761.4155	
<b>Elevation (SFT)*</b>	656.511	

  

<b>Convergence Angle</b>	0	7	16.9752790
<b>Scale Factor</b>	1.000026642		
<b>Elevation Adjust. Factor</b>	0.9999685980		
<b>Combined Adjust. Factor</b>	0.9999952392		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 21.388 KM (13.29MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.52 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250003A 2001" SET ON TOP OF AN IRONROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN GATE POST	75	6.30	20.7	
MK # 2	0.35 METER DIAMETER CEDAR FENCE POS	276	16.20	53.1	
MK # 3	POWER POLE	278	19.00	62.3	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: FAA 7M9 A</p> <p>Ref Mon # 2: 330001</p> <p>Ref Mon # 3: CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250004	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	219,543.1658	
<b>Easting (M)</b>	421,022.3206	
<b>Elevation (M)*</b>	244.311	
<b>Northing (SFT)</b>	720,284.5365	
<b>Easting (SFT)</b>	1,381,304.0635	
<b>Elevation (SFT)*</b>	801.544	

  

<b>Convergence Angle</b>	0	8	10.3572631
<b>Scale Factor</b>	1.000016488		
<b>Elevation Adjust. Factor</b>	0.9999616611		
<b>Combined Adjust. Factor</b>	0.9999781485		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 15.160 KM (9.42MI). TO THE STATION ON THE RIGHT. THE STATION IS 27.00 METERS EAST OF THE CENTER LINE OF A GRAVEL DRIVE, 18.40 METERS WEST OF THE CENTER LINE OF A GRAVEL DRIVE, 10.90 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ' 250004 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORRIGATED METAL PIPE	146	15.20	49.9
<b>MK # 2</b>	LIGHT POLE	95	25.25	82.8
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	250004A
<b>Geodetic Azimuth</b>	147 03 28.01374
<b>Grid Azimuth</b>	146 55 17.72496

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	FAA 7M9 A
<b>Ref Mon # 2</b>	330001
<b>Ref Mon # 3</b>	CHERPORT AZ MK

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250004A	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	219,029.9888	
<b>Easting (M)</b>	421,356.5810	
<b>Elevation (M)*</b>	247.655	
<b>Northing (SFT)</b>	718,600.8883	
<b>Easting (SFT)</b>	1,382,400.7162	
<b>Elevation (SFT)*</b>	812.515	

  

<b>Convergence Angle</b>	0	8	18.1251340
<b>Scale Factor</b>	1.000015464		
<b>Elevation Adjust. Factor</b>	0.9999611364		
<b>Combined Adjust. Factor</b>	0.9999765998		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 14.548 KM (9.04 MI) . TO THE STATION ON THE RIGHT. THE STATION IS 18.35 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 250004A 2001 SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	329	4.20	13.8
<b>MK # 2</b>	CROSS TIE CORNER POST	328	25.00	82.0
<b>MK # 3</b>	EAST END CORRIGATED METAL PIPE	311	34.90	114.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FAA 7M9 A</p> <p><b>Ref Mon # 2</b>    330001</p> <p><b>Ref Mon # 3</b>    CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250005	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,722.6222	
<b>Easting (M)</b>	425,283.3351	
<b>Elevation (M)*</b>	223.926	
<b>Northing (SFT)</b>	711,030.8030	
<b>Easting (SFT)</b>	1,395,283.7419	
<b>Elevation (SFT)*</b>	734.664	

  

<b>Convergence Angle</b>	0	9	49.5592409
<b>Scale Factor</b>	1.000010929		
<b>Elevation Adjust. Factor</b>	0.9999648599		
<b>Combined Adjust. Factor</b>	0.9999757886		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 9.817 KM (6.1MI), TO THE STATION ON THE RIGHT. THE STATION IS 16.45 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, AND 1.020 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250005 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK F 40 RESET. THE SHOT DISTANCE IS 578.317 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: FAA 7M9 A</p> <p>Ref Mon # 2: 330001</p> <p>Ref Mon # 3: CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250005A	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,779.9935	
<b>Easting (M)</b>	424,707.8843	
<b>Elevation (M)*</b>	221.823	
<b>Northing (SFT)</b>	711,219.0287	
<b>Easting (SFT)</b>	1,393,395.7837	
<b>Elevation (SFT)*</b>	727.764	

  

<b>Convergence Angle</b>	0	9	36.1446326
<b>Scale Factor</b>	1.000011043		
<b>Elevation Adjust. Factor</b>	0.9999651899		
<b>Combined Adjust. Factor</b>	0.9999762326		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 10.396 KM (6.46MI), TO THE STATION ON THE LEFT. THE STATION IS 17.00 METER SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 9.00 METERS EAST OF THE CENTER LINE OF A PASTURE ENTRANCE, AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK F 40 RESET. THE SHOT DISTANCE IS 578.317 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	119	5.05	16.6
<b>MK # 2</b>	EAST GATE POST	252	5.60	18.4
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FAA 7M9 A</p> <p><b>Ref Mon # 2</b>    330001</p> <p><b>Ref Mon # 3</b>    CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250006	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,578.9769	
<b>Easting (M)</b>	429,620.0213	
<b>Elevation (M)*</b>	255.363	
<b>Northing (SFT)</b>	703,997.8600	
<b>Easting (SFT)</b>	1,409,511.6865	
<b>Elevation (SFT)*</b>	837.803	

  

<b>Convergence Angle</b>	0	11	30.5144695
<b>Scale Factor</b>	1.000006828		
<b>Elevation Adjust. Factor</b>	0.9999599268		
<b>Combined Adjust. Factor</b>	0.9999667546		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	272	25.50	83.7
<b>MK # 2</b>	BENCH MARK K 40 RESET 1955	279	33.70	110.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FAA 7M9 A	
<b>Ref Mon # 2</b> 330001	
<b>Ref Mon # 3</b> CHERPORT AZ MK	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 16 1.1224884
<b>Longitude</b>	91 40 13.3433508
<b>Ellipsoid Height (M):</b>	227.283
<b>Geoid Height (M):</b>	-28.079

Location Description
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 4.957 KM (3.08 MI) TO THE STATION ON LEFT. THE STATION IS 15.06 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.</p>

<b>AZ Mark Station</b>	250006A
<b>Geodetic Azimuth</b>	292 24 59.04997
<b>Grid Azimuth</b>	292 13 28.45900

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250006A	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,740.7796	
<b>Easting (M)</b>	429,224.0213	
<b>Elevation (M)*</b>	251.524	
<b>Northing (SFT)</b>	704,528.7077	
<b>Easting (SFT)</b>	1,408,212.4765	
<b>Elevation (SFT)*</b>	825.208	

  

<b>Convergence Angle</b>	0	11	21.2952768
<b>Scale Factor</b>	1.000007134		
<b>Elevation Adjust. Factor</b>	0.9999605292		
<b>Combined Adjust. Factor</b>	0.9999676630		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 5.375 KM (3.34 MI), TO THE STATION ON THE LEFT. THE STATION IS 17.30 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 6.50 METERS WEST OF PASTURE ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST END CORRIGATED METAL PIPE	25	9.05	29.7	
MK # 2	POWER POLE	146	15.70	51.5	
MK # 3	WESTERN BRACE POST	267	3.85	12.6	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	
Ref Mon # 2 330001	
Ref Mon # 3 CHERPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250007	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,328.7246	
<b>Easting (M)</b>	433,811.8820	
<b>Elevation (M)*</b>	221.232	
<b>Northing (SFT)</b>	699,895.9906	
<b>Easting (SFT)</b>	1,423,264.4829	
<b>Elevation (SFT)*</b>	725.825	

  

<b>Convergence Angle</b>	0	13	8.1246415
<b>Scale Factor</b>	1.000004476		
<b>Elevation Adjust. Factor</b>	0.9999652827		
<b>Combined Adjust. Factor</b>	0.9999697585		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 0.515 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METER NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.34 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250007 2001" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	250007A
<b>Geodetic Azimuth</b>	311 19 20.18991
<b>Grid Azimuth</b>	311 06 11.98285

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	
Ref Mon # 2 330001	
Ref Mon # 3 CHERPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250007A	<b>Date Monumented</b> 6/7/2001	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050098
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	213,707.6912	
<b>Easting (M)</b>	433,377.5154	
<b>Elevation (M)*</b>	219.398	
<b>Northing (SFT)</b>	701,139.3169	
<b>Easting (SFT)</b>	1,421,839.3984	
<b>Elevation (SFT)*</b>	719.808	

  

<b>Convergence Angle</b>	0	12	58.0333620
<b>Scale Factor</b>	1.000005180		
<b>Elevation Adjust. Factor</b>	0.9999655705		
<b>Combined Adjust. Factor</b>	0.9999707503		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 1.078 KM (0.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.40 METERS EAST OF THE CENTER LINE OF STATE HIGHWAY 289 NORTH, 16.00 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 2.10 METERS SOUTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250007A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&amp;GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BRACE POST	11	3.80	12.5
<b>MK # 2</b>	BRACE POST	78	3.45	11.3
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    FAA 7M9 A</p> <p><b>Ref Mon # 2</b>    330001</p> <p><b>Ref Mon # 3</b>    CHERPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250008	<b>Date Monumented</b> 1/10/2003	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050142
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	228,163.6121	
<b>Easting (M)</b>	391,295.6230	
<b>Elevation (M)*</b>	247.953	
<b>Northing (SFT)</b>	748,566.7840	
<b>Easting (SFT)</b>	1,283,775.7231	
<b>Elevation (SFT)*</b>	813.491	

  

<b>Convergence Angle</b>	0	3	23.2328500
<b>Scale Factor</b>	1.000034683		
<b>Elevation Adjust. Factor</b>	0.9999610897		
<b>Combined Adjust. Factor</b>	0.9999957713		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND STATE HIGHWAY 223, IN VIOLA , GO WEST ON HIGHWAY 62 6.8 MILES TO THE STATION ON THE RIGHT. 11.75 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH EAST OF A WITNESS POST. A STANDARD 64mm CAP STAMPED "250008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10" HICKORY	217	17.60	57.7
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR1</p> <p>Ref Mon # 2    AHTD HAR1</p> <p>Ref Mon # 3    BUTLER</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250008A	<b>Date Monumented</b> 1/10/2003	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> N/A	<b>Job Number:</b> 050142
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,566.1450	
<b>Easting (M)</b>	391,388.5240	
<b>Elevation (M)*</b>	250.748	
<b>Northing (SFT)</b>	746,606.5941	
<b>Easting (SFT)</b>	1,284,080.5158	
<b>Elevation (SFT)*</b>	822.663	

  

<b>Convergence Angle</b>	0	3	21.0501683
<b>Scale Factor</b>	1.000033365		
<b>Elevation Adjust. Factor</b>	0.9999606510		
<b>Combined Adjust. Factor</b>	0.9999940147		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	195	5.10	16.7
MK # 2	WOODEN GATE POST	139	12.50	41.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: AHTD PAR1	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38
Ref Mon # 2: AHTD HAR1	
Ref Mon # 3: BUTLER	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250009	<b>Date Monumented</b> 1/10/2003	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050142, 050422
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	229,021.6398	0.0030	
<b>Easting (M)</b>	397,674.1220	0.0030	
<b>Elevation (M)*</b>	278.855		
<b>Northing (SFT)</b>	751,381.8299		
<b>Easting (SFT)</b>	1,304,702.5153		
<b>Elevation (SFT)*</b>	914.877		

  

<b>Convergence Angle</b>	0	0	54.3107069
<b>Scale Factor</b>	1.000036600		
<b>Elevation Adjust. Factor</b>	0.9999562405		
<b>Combined Adjust. Factor</b>	0.9999928389		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	23	51.2681748
<b>Longitude</b>	92	1	33.3326208
<b>Ellipsoid Height:</b>	250.516		
<b>Grid Northing (Meters)</b>	229,021.6221		
<b>Grid Easting (Meters)</b>	397,674.1450		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	105	17.80	58.4
MK # 2	WOODEN FENCE POST	269	5.25	17.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT, ARHR (AHTD PAR1) <b>Ref Mon # 2</b> ARJB, ARM3 (AHTD HAR1) <b>Ref Mon # 3</b> MOAT (BUTLER)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT.            SUPERCEDED GEOID HEIGHT -28.218  <div style="text-align: right;">***NOTE</div> </td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. SUPERCEDED GEOID HEIGHT -28.218 <div style="text-align: right;">***NOTE</div>
Comments			
ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. SUPERCEDED GEOID HEIGHT -28.218 <div style="text-align: right;">***NOTE</div>			

  

Location Description
TO REACH STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223 IN VIOLA, GO WEST ON HIGHWAY 62 2.6 MILES TO THE STATION ON THE LEFT 9.8 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 1.20 METERS NORTH OF A FENCE AND 1.10 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250009 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	250009A
<b>Geodetic Azimuth</b>	92 46 42
<b>Grid Azimuth</b>	92 47 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250009A	<b>Date Monumented</b> 1/10/2003	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050142, 050422
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	228,997.2957	0.0030	
<b>Easting (M)</b>	398,172.7496	0.0030	
<b>Elevation (M)*</b>	256.099		
<b>Northing (SFT)</b>	751,301.9610		
<b>Easting (SFT)</b>	1,306,338.4293		
<b>Elevation (SFT)*</b>	840.217		

  

<b>Convergence Angle</b>	0	0	42.6673230
<b>Scale Factor</b>	1.000036546		
<b>Elevation Adjust. Factor</b>	0.9999598114		
<b>Combined Adjust. Factor</b>	0.9999963559		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	23	50.4827520
<b>Longitude</b>	92	1	13.3250052
<b>Ellipsoid Height:</b>	227.778		
<b>Grid Northing (Meters)</b>	228,997.2941		
<b>Grid Easting (Meters)</b>	398,172.7310		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONC RIGHT WAY MARKER	90	6.50	21.3
MK # 2	SOUTH WEST CORNER TRAILER HOUSE	315	27.50	90.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT, ARHR (AHTD PAR1)	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. ***NOTE SUPERCEDED GEOID HEIGHT -28.217
Ref Mon # 2    ARJB, ARM3 (AHTD HAR1)	
Ref Mon # 3    MOAT (BUTLER)	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36    23    50.4828024
<b>Longitude</b>	92    1    13.3242600
<b>Ellipsoid Height (M):</b>	227.803    0.0001
<b>Geoid Height (M):</b>	-28.296    0.0001

Location Description
<p>TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 2.3 MILES TO THE STATION ON THE RIGHT, 11.6 METERS NORTH OF THE CENTER OF THE HIGHWAY, 1.10 METERS SOUTH OF A FENCE CORNER AND 0.85 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250009A 2003" ON TOP OF A 0.80 IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	250009
<b>Geodetic Azimuth</b>	272 46 54
<b>Grid Azimuth</b>	272 47 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250010	<b>Date Monumented</b> 1/13/2003	<b>Monumented By</b> AHTD	<b>County</b> FULTON	<b>Route</b> 62	<b>Job Number:</b> 050142
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,049.8351	
<b>Easting (M)</b>	394,560.0760	
<b>Elevation (M)*</b>	260.848	
<b>Northing (SFT)</b>	751,474.3340	
<b>Easting (SFT)</b>	1,294,485.8493	
<b>Elevation (SFT)*</b>	855.798	

  

<b>Convergence Angle</b>	0	2	7.0260221
<b>Scale Factor</b>	1.000036660		
<b>Elevation Adjust. Factor</b>	0.9999590661		
<b>Combined Adjust. Factor</b>	0.9999957246		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY	145	11.50	37.7
<b>MK # 2</b>	TRANSMISSION POLE	190	29.50	96.8
<b>MK # 3</b>	TELEPHONE RISER	55	3.15	10.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR1	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38
<b>Ref Mon # 2</b> AHTD HAR1	
<b>Ref Mon # 3</b> BUTLER	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 23 52.1390292
<b>Longitude</b>	92 3 38.2956048
<b>Ellipsoid Height (M):</b>	232.590
<b>Geoid Height (M):</b>	-28.224

Location Description
<p>TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 4.66 MILES TO THE STATION ON THE LEFT. 14.2 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 7.0 METERS EAST OF A POWER LINE ACCESS ROAD, 14.9 METERS NORTH OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250011	<b>Date Monumented</b> 6/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 050230
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	239,836.2031		
<b>Easting (M)</b>	441,543.6750		
<b>Elevation (M)*</b>	156.053		
<b>Northing (SFT)</b>	786,862.6097		
<b>Easting (SFT)</b>	1,448,631.2071		
<b>Elevation (SFT)*</b>	511.983		

  

<b>Convergence Angle</b>	0	16	11.2527556
<b>Scale Factor</b>	1.000061978		
<b>Elevation Adjust. Factor</b>	0.9999755108		
<b>Combined Adjust. Factor</b>	1.0000374873		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Southeast corner of a bridge	343	36.88	121.0
<b>MK # 2</b>	South end of a guard rail	178	25.30	83.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.
<b>Ref Mon # 2</b> MONA	
<b>Ref Mon # 3</b> MOWS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250011A	<b>Date Monumented</b> 6/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 050230
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	240,365.2241				
<b>Easting (M)</b>	441,481.7660				
<b>Elevation (M)*</b>	168.696				
<b>Northing (SFT)</b>	788,598.2394				
<b>Easting (SFT)</b>	1,448,428.0940				
<b>Elevation (SFT)*</b>	553.465				

  

<b>Convergence Angle</b>	0	16	9.8635562
<b>Scale Factor</b>	1.000063305		
<b>Elevation Adjust. Factor</b>	0.9999735267		
<b>Combined Adjust. Factor</b>	1.0000368301		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	"Enter" sign	190	16.45	54.0
<b>MK # 2</b>	18 inch culvert	22	10.67	35.0
<b>MK # 3</b>	18 inch culvert	150	15.54	51.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> MONA <b>Ref Mon # 3</b> MOWS	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

  

Location Description
To reach the station from the junction of highways 63 and 9 in Mammoth Springs go north on hwy-63 for 0.20 miles to the station on the left in an area between two concrete drives. 66.0 feet west of the center of hwy-63 and 2.00 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "250011A 2010" set on top of a 5/8 by 4.00 foot long rebar and is 0.10 feet below the surface

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250012	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,509.2992	
<b>Easting (M)</b>	447,133.9802	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	733,296.7591	
<b>Easting (SFT)</b>	1,466,972.0667	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	19.9111479
<b>Scale Factor</b>	1.000024397		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	215	19.20	63.0	
MK # 2	Fence corner	50	9.10	29.9	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250012A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	223,280.0505	
<b>Easting (M)</b>	446,912.4464	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	732,544.6323	
<b>Easting (SFT)</b>	1,466,245.2512	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	14.7131768
<b>Scale Factor</b>	1.000023920		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Center of ditch	310	2.00	6.6	
MK # 2	Extended CL of county rd.	115	5.50	18.0	
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250013	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,838.6883	
<b>Easting (M)</b>	445,972.9217	
<b>Elevation (M)*</b>	149.846	
<b>Northing (SFT)</b>	747,500.7632	
<b>Easting (SFT)</b>	1,463,162.8273	
<b>Elevation (SFT)*</b>	491.618	

  

<b>Convergence Angle</b>	0	17	53.3430924
<b>Scale Factor</b>	1.000033711		
<b>Elevation Adjust. Factor</b>	0.9999764849		
<b>Combined Adjust. Factor</b>	1.0000101951		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>Starting at the intersection of Hwy. 63 and 62/412, go north for 6.1 miles to the station on the left. Cap is a standard cap stamped 250013-2011 set on a 4.ft-5/8 rebar, and 3.ft east of witness post and 75.ft west of center line and is as described above. Lat.36.2309 Lon.091.2915</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	metal fence post for double gate	310	0.60	2.0	
MK # 2	Center line of grave dr.	225	4.90	16.1	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250013A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,333.0525	
<b>Easting (M)</b>	445,920.5861	
<b>Elevation (M)*</b>	171.300	
<b>Northing (SFT)</b>	745,841.8564	
<b>Easting (SFT)</b>	1,462,991.1229	
<b>Elevation (SFT)*</b>	562.007	

  

<b>Convergence Angle</b>	0	17	52.0598624
<b>Scale Factor</b>	1.000032601		
<b>Elevation Adjust. Factor</b>	0.9999731181		
<b>Combined Adjust. Factor</b>	1.0000057183		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
Starting at the intersection of Hwy. 63 and 62/412 in Hardy, go 5.75miles north on hwy.63 to the station on the left. Cap is stamped 250013A-2011, set on 2.ft - 5/8 rebar, 2.ft east of witness post and 32.ft west of center line and is as described above. Lat.36.2252 Lon.091.2918				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center line of gravel dr.	175	8.80	28.9
MK # 2	Power pole with guy	206	24.40	80.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.                 </td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250014	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	231,140.6776	
<b>Easting (M)</b>	445,391.8004	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	758,334.0398	
<b>Easting (SFT)</b>	1,461,256.2651	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	40.1719670
<b>Scale Factor</b>	1.000041125		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	corgated metal pipe	225	5.20	17.1
MK # 2	center line of gravel dr.	90	7.30	24.0
MK # 3	power pole	170	29.00	95.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	36 24 56.2379112
<b>Longitude</b>	91 29 38.0829084
<b>Ellipsoid Height (M):</b>	192.832
<b>Geoid Height (M):</b>	-28.474

Location Description
Starting at the intersection of Hwy.63 and 62/412, go north on hwy.63 for 8.65miles to the station on the right. standard cap stamped 250014-2011. 2.ft west of witness post, set on 4.ft-5/8 rebar, 60.ft east of center line and is as descibed above. Lat.36.2456 Lon.091.2938

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250014A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	231,520.0043		
<b>Easting (M)</b>	445,255.0427		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	759,578.5474		
<b>Easting (SFT)</b>	1,460,807.5859		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	17	37.0233078
<b>Scale Factor</b>	1.000041995		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center line of gravel dr.	0	8.80	28.9
MK # 2	18" Corrugated metal pipe	70	11.60	38.1
MK # 3	Center Line of Hwy.63	90	23.50	77.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	36 25 8.5661796
<b>Longitude</b>	91 29 43.4939136
<b>Ellipsoid Height (M):</b>	188.502
<b>Geoid Height (M):</b>	-28.476

Location Description
Starting of the intersection of Hwy.63 and 62/412, go 8.9miles north on hwy.63 to the station on the left cap is standard cap stamped 250014A-2011, 6.ft south from the witness post and 77.ft west of center line and is as described above. Lat.36.2509 Lon.091.2944

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250015	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 63	<b>Job Number:</b> 012157,050265
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	235,349.2912		
<b>Easting (M)</b>	445,320.6249		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	772,141.7995		
<b>Easting (SFT)</b>	1,461,022.7502		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	17	39.0142931
<b>Scale Factor</b>	1.000050961		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	south of telephone box	20	2.30	7.5	
<b>MK # 2</b>	north of Union Hill RD.	180	8.50	27.9	
<b>MK # 3</b>	15" corgated metal pipe	320	14.30	46.9	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250016	<b>Date Monumented</b> 2/14/2013	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 9	<b>Job Number:</b> 050271
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	228,838.9825	
<b>Easting (M)</b>	419,211.7929	
<b>Elevation (M)*</b>	216.079	
<b>Northing (SFT)</b>	750,782.5618	
<b>Easting (SFT)</b>	1,375,364.0239	
<b>Elevation (SFT)*</b>	708.920	

  

<b>Convergence Angle</b>	0	7	28.5974151
<b>Scale Factor</b>	1.000036146		
<b>Elevation Adjust. Factor</b>	0.9999660913		
<b>Combined Adjust. Factor</b>	1.0000022360		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	32	32.31	106.0
<b>MK # 2</b>	Metal fence post	226	20.12	66.0
<b>MK # 3</b>	Wood fence post	83	1.52	5.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.</td> </tr> </table>	Comments	ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.
Comments			
ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.			

  

Location Description	
To reach from the intersection of Hwy. 62/412 and Hwy. 9, go North on Hwy. 9 for 3.3 miles to the station on the right. The station is 29.5 ft. South of the Centerline of Hwy. 9, and 3 ft. North of witness post. The station mark is a 2 1/2 in. cap stamped "250016 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.	

  

<b>AZ Mark Station</b>	250016A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250016A	<b>Date Monumented</b> 2/14/2013	<b>Monumented By</b> AHTD	<b>County</b> Fulton	<b>Route</b> 9	<b>Job Number:</b> 050271
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	228,672.5418		
<b>Easting (M)</b>	418,752.0139		
<b>Elevation (M)*</b>	214.182		
<b>Northing (SFT)</b>	750,236.4976		
<b>Easting (SFT)</b>	1,373,855.5656		
<b>Elevation (SFT)*</b>	702.696		

  

<b>Convergence Angle</b>	0	7	17.8533111
<b>Scale Factor</b>	1.000035778		
<b>Elevation Adjust. Factor</b>	0.9999663890		
<b>Combined Adjust. Factor</b>	1.0000021658		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	242	22.25	73.0
<b>MK # 2</b>	Metal fence post	30	0.91	3.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.</td> </tr> </table>	Comments	ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.
Comments			
ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.			

  

Location Description
To reach from the intersection of Hwy. 62/412 and Hwy. 9, go North on Hwy. 9 for 3.0 miles to the station on the left. The station is 38 ft. North of the Centerline of Hwy. 9, and 42 ft. West of Centerline of driveway at 2168 Hwy. 9, and 2 ft. South of witness post. The station mark is a 2 1/2 in. cap stamped "250016A 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250017	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	216,537.3080	0.0030	
<b>Easting (M)</b>	409,254.7917	0.0040	
<b>Elevation (M)*</b>	222.750	0.0020	
<b>Northing (SFT)</b>	710,422.8180		
<b>Easting (SFT)</b>	1,342,696.7624		
<b>Elevation (SFT)*</b>	730.804		

  

<b>Convergence Angle</b>	0	3	35.8001115
<b>Scale Factor</b>	1.000010632		
<b>Elevation Adjust. Factor</b>	0.9999650445		
<b>Combined Adjust. Factor</b>	0.9999756762		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE LINE	300	2.44	8.0
<b>MK # 2</b>	TELEPHONE BOX	18	32.61	107.0
<b>MK # 3</b>	Witness sign		2.29	7.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARM3 <b>Ref Mon # 2</b> MOAT <b>Ref Mon # 3</b> MOWS	<b>Comments</b>  Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
---	---

  

Location Description			
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 7.4 miles southwest along AR hwy 9 to the monument on the right 32.7 feet west of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7.5' East of sign.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	GEOID12B		
<b>Latitude</b>	36	17	6.1073412
<b>Longitude</b>	91	53	49.1451540
<b>Ellipsoid Height (M):</b>	194.602	0.0000	
<b>Geoid Height (M):</b>	-28.148		

  

<b>AZ Mark Station</b>	250017A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250017A	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
---------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	216,869.0774	0.0040			
<b>Easting (M)</b>	409,469.6539	0.0050			
<b>Elevation (M)*</b>	226.970	0.0009			
<b>Northing (SFT)</b>	711,511.2981				
<b>Easting (SFT)</b>	1,343,401.6895				
<b>Elevation (SFT)*</b>	744.651				

  

<b>Convergence Angle</b>	0	3	40.8184734
<b>Scale Factor</b>	1.000011271		
<b>Elevation Adjust. Factor</b>	0.9999643823		
<b>Combined Adjust. Factor</b>	0.9999756529		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE LINE	300	2.26	7.4
<b>MK # 2</b>	TELEPHONE BOX	16	6.00	19.7
<b>MK # 3</b>	FIRE HYDRANT	15	11.70	38.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="MOAT"/> <b>Ref Mon # 3</b> <input type="text" value="MOWS"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

  

Location Description	
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 7.2 miles southwest along AR hwy 9 to the monument on the right 33.3 feet west of the centerline and 59.0 feet south of the centerline of Emiline road. A standard 3" aluminum cap stamped 250017A / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7' East of sign.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 17 16.8633852
<b>Longitude</b>	91 53 40.5210444
<b>Ellipsoid Height (M):</b>	198.844 0.0160
<b>Geoid Height (M):</b>	-28.151

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250018	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	219,040.2269	0.0040	
<b>Easting (M)</b>	411,444.9268	0.0040	
<b>Elevation (M)*</b>	275.210	0.0017	
<b>Northing (SFT)</b>	718,634.4778		
<b>Easting (SFT)</b>	1,349,882.2307		
<b>Elevation (SFT)*</b>	902.917		

  

<b>Convergence Angle</b>	0	4	26.9444223
<b>Scale Factor</b>	1.000015521		
<b>Elevation Adjust. Factor</b>	0.9999568125		
<b>Combined Adjust. Factor</b>	0.9999723328		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	210	19.05	62.5
<b>MK # 2</b>	CENTER OF CORRIGATED METAL PIPE	235	15.85	52.0
<b>MK # 3</b>	POWER POLE	40	12.13	39.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
<b>Ref Mon # 2</b> <input type="text" value="MOAT"/>	
<b>Ref Mon # 3</b> <input type="text" value="MOWS"/>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 18 27.2247948
<b>Longitude</b>	91 52 21.2530980
<b>Ellipsoid Height (M):</b>	247.052 0.0150
<b>Geoid Height (M):</b>	-28.178

  

Location Description
<p>To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 5.3 miles southwest along AR hwy 9 to the monument on the left 33.0 feet east of the centerline. A standard 3" aluminum cap stamped 250018 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7' West of sign</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250018A	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
---------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	219,540.7683	0.0050			
<b>Easting (M)</b>	411,798.7698	0.0050			
<b>Elevation (M)*</b>	262.083	0.0017			
<b>Northing (SFT)</b>	720,276.6707				
<b>Easting (SFT)</b>	1,351,043.1306				
<b>Elevation (SFT)*</b>	859.851				

  

<b>Convergence Angle</b>	0	4	35.2131162
<b>Scale Factor</b>	1.000016517		
<b>Elevation Adjust. Factor</b>	0.9999588723		
<b>Combined Adjust. Factor</b>	0.9999753886		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE LINE	300	1.68	5.5
<b>MK # 2</b>	CENTER OF WEST HEADWALL	50	30.02	98.5
<b>MK # 3</b>	Witness sign		1.52	5.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="MOAT"/> <b>Ref Mon # 3</b> <input type="text" value="MPWS"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

  

Location Description	
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 4.9miles southwest along AR hwy 9 to the monument on the right 35.9 feet west of the centerline. A standard 3" aluminum cap stamped 250018A / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 5' West of sign.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 18 43.4483640
<b>Longitude</b>	91 52 7.0432572
<b>Ellipsoid Height (M):</b>	233.915 0.0150
<b>Geoid Height (M):</b>	-28.187

  

<b>AZ Mark Station</b>	250018
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250019	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	222,639.9204	0.0040
<b>Easting (M)</b>	413,639.0836	0.0050
<b>Elevation (M)*</b>	241.640	0.0052
<b>Northing (SFT)</b>	730,444.4722	
<b>Easting (SFT)</b>	1,357,080.8934	
<b>Elevation (SFT)*</b>	792.780	

  

<b>Convergence Angle</b>	0	5	18.2509718
<b>Scale Factor</b>	1.000022825		
<b>Elevation Adjust. Factor</b>	0.9999620803		
<b>Combined Adjust. Factor</b>	0.9999849044		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	135	3.05	10.0
<b>MK # 2</b>	POWER POLE	165	8.69	28.5
<b>MK # 3</b>	NORTH END OF CORRIGATED METAL PIPE	225	41.36	135.7

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARM3 <b>Ref Mon # 2</b> MOAT <b>Ref Mon # 3</b> MOWS	<b>Comments</b> Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
--	---

  

Location Description			
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.5 miles southwest along AR hwy 9 to the monument on the left 31.0 feet east of the centerline. A standard 3" aluminum cap stamped 250019 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 10' West of sign.			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 20 23.9050896
<b>Longitude</b>	91 50 53.0822328
<b>Ellipsoid Height (M):</b>	213.375 0.0180
<b>Geoid Height (M):</b>	-28.247

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 250019A	<b>Date Monumented</b> 6/28/2017	<b>Monumented By</b> S5101	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> 050347
---------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	223,171.4297	0.0040			
<b>Easting (M)</b>	414,089.7711	0.0040			
<b>Elevation (M)*</b>	228.211	0.0016			
<b>Northing (SFT)</b>	732,188.2656				
<b>Easting (SFT)</b>	1,358,559.5240				
<b>Elevation (SFT)*</b>	748.723				

  

<b>Convergence Angle</b>	0	5	28.7869517
<b>Scale Factor</b>	1.000023930		
<b>Elevation Adjust. Factor</b>	0.9999641875		
<b>Combined Adjust. Factor</b>	0.9999881167		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	115	3.78	12.4
MK # 2	SOUTH END OF CORIGATED METAL PIPE	350	3.51	11.5
MK # 3	Witness sign		3.96	13.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARM3"/> <b>Ref Mon # 2</b> <input type="text" value="MOAT"/> <b>Ref Mon # 3</b> <input type="text" value="MOWS"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

  

Location Description
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.1 miles southwest along AR hwy 9 to the monument on the left 30.7 feet east of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 13' West of sign.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260001	<b>Date Monumented</b> 11/2/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> R60140, 060776
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,887.6919	
<b>Easting (M)</b>	308,654.9540	
<b>Elevation (M)*</b>	202.343	
<b>Northing (SFT)</b>	2,010,782.3692	
<b>Easting (SFT)</b>	1,012,645.4616	
<b>Elevation (SFT)*</b>	663.854	

  

<b>Convergence Angle</b>	0	33	26.0991175
<b>Scale Factor</b>	0.999964039		
<b>Elevation Adjust. Factor</b>	0.9999682468		
<b>Combined Adjust. Factor</b>	0.9999322869		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	144	7.97	26.1
<b>MK # 2</b>	LIGHT POLE	304	8.48	27.8
<b>MK # 3</b>	SOUTH END OF CONCRETE HEADWALL	341	21.85	71.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	ELEVATION BY 3-WIRE FROM NGS K 103, L 103
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> AP 1970 STA A3 HOT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 34 55.3667880
<b>Longitude</b>	92 59 44.2996224
<b>Ellipsoid Height (M):</b>	175.144
<b>Geoid Height (M):</b>	-27.115

Location Description
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE, GO SOUTH ON HIGHWAY 7 FOR 10.70KM. (6.65MI.) TO THE STATION ON THE RIGHT. 16.47 METERS SOUTHWEST OF THE CENTER OF HIGHWAY 7 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260001 1998" SET ON TOP OF AN IRON ROD 0.83 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260001A	<b>Date Monumented</b> 11/2/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> R60140, 060776
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,698.5559	
<b>Easting (M)</b>	309,028.9640	
<b>Elevation (M)*</b>	189.256	
<b>Northing (SFT)</b>	2,010,161.8455	
<b>Easting (SFT)</b>	1,013,872.5261	
<b>Elevation (SFT)*</b>	620.917	

  

<b>Convergence Angle</b>	0	33	17.8454776
<b>Scale Factor</b>	0.999963761		
<b>Elevation Adjust. Factor</b>	0.9999703004		
<b>Combined Adjust. Factor</b>	0.9999340625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	GUY POLE	106	29.55	96.9		
MK # 2	GUY POLE	281	34.20	112.2		
MK # 3	N/A					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299 <b>Ref Mon # 2</b> AHTD LR 1 <b>Ref Mon # 3</b> AP 1970 STA A3 HOT	ELEVATION BY 3-WIRE FROM NGS K 103, L 103

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	34	49.3468140
<b>Longitude</b>	92	59	29.5528344
<b>Ellipsoid Height (M):</b>	162.122		
<b>Geoid Height (M):</b>	-27.100		

  

Location Description
TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE, GO SOUTH ON HIGHWAY 7 FOR 11.105 KM. (6.90MI.) TO THE STATION ON THE RIGHT. 61.50 METERS WEST OF THE CENTER OF A PAVED ENTRANCE TO J'S MINI STORAGE, 8.00M SOUTH OF THE CENTER OF HIGHWAY 7 AND 0.40 METERS NORTH OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260001A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260002	<b>Date Monumented</b> 11/3/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060776
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,733.0440	
<b>Easting (M)</b>	305,639.6220	
<b>Elevation (M)*</b>	211.743	
<b>Northing (SFT)</b>	2,020,117.4952	
<b>Easting (SFT)</b>	1,002,752.6598	
<b>Elevation (SFT)*</b>	694.693	

  

<b>Convergence Angle</b>	0	34	32.9447553
<b>Scale Factor</b>	0.999968366		
<b>Elevation Adjust. Factor</b>	0.9999667717		
<b>Combined Adjust. Factor</b>	0.9999351388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END 0.90 METER CONCRETE P	313	13.10	43.0
MK # 2	N/A			
MK # 3	N/A			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Q 299	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 AP 1970 STA A3 HOT	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 36 26.7350976
<b>Longitude</b>	93 1 43.7328012
<b>Ellipsoid Height (M):</b>	184.475
<b>Geoid Height (M):</b>	-27.268

Location Description
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 6.357KM. (3.95MI.) TO THE STATION ON THE LEFT. 17.10 METERS NORTHEAST OF THE CENTER OF HWY-7, 9.80 METERS SOUTHEAST OF A PAVED DRIVEWAY AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260002 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	260002A
<b>Geodetic Azimuth</b>	153 50 29.07650
<b>Grid Azimuth</b>	154 25 02.04413

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260002A	<b>Date Monumented</b> 11/3/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060776,061438
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,443.8509	
<b>Easting (M)</b>	305,778.0730	
<b>Elevation (M)*</b>	210.035	
<b>Northing (SFT)</b>	2,019,168.7008	
<b>Easting (SFT)</b>	1,003,206.8945	
<b>Elevation (SFT)*</b>	689.090	

  

<b>Convergence Angle</b>	0	34	29.8396642
<b>Scale Factor</b>	0.999967914		
<b>Elevation Adjust. Factor</b>	0.9999670397		
<b>Combined Adjust. Factor</b>	0.9999349548		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	329	59.36	194.8
<b>MK # 2</b>	GUY POLE	11	32.80	107.6
<b>MK # 3</b>	GUY POLE	89	22.60	74.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> AP 1970 STA A3 HOT	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 36 17.3955276
<b>Longitude</b>	93 1 38.1849312
<b>Ellipsoid Height (M):</b>	182.730
<b>Geoid Height (M):</b>	-27.257

Location Description
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 6.679KM. (4.15MI.) TO THE STATION ON THE RIGHT. 47.79 METERS SOUTHEAST OF THE CENTER OF "TURTLE CREEK ROAD", 9.38 METERS SOUTHWEST OF THE CENTER OF HWY-7 AND 0.78 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260002A 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	260002
<b>Geodetic Azimuth</b>	333 50 32.22731
<b>Grid Azimuth</b>	334 25 02.04413

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260003	<b>Date Monumented</b> 11/3/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060776,061438
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	620,225.3549	
<b>Easting (M)</b>	303,072.2100	
<b>Elevation (M)*</b>	245.210	
<b>Northing (SFT)</b>	2,034,856.0185	
<b>Easting (SFT)</b>	994,329.4090	
<b>Elevation (SFT)*</b>	804.494	

  

<b>Convergence Angle</b>	0	35	30.3619335
<b>Scale Factor</b>	0.999975633		
<b>Elevation Adjust. Factor</b>	0.9999615200		
<b>Combined Adjust. Factor</b>	0.9999371539		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.643KM. (0.40 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST OF THE CENTER OF HWY-7 AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	N/A			
<b>MK # 2</b>	N/A			
<b>MK # 3</b>	N/A			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> AP 1970 STA A3 HOT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260003A	<b>Date Monumented</b> 11/3/1998	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060776,061438
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	620,797.2560	0.0060			
<b>Easting (M)</b>	303,142.8010	0.0057			
<b>Elevation (M)*</b>	287.087				
<b>Northing (SFT)</b>	2,036,732.3307				
<b>Easting (SFT)</b>	994,561.0063				
<b>Elevation (SFT)*</b>	941.883				

  

<b>Convergence Angle</b>	0	35	28.9402678
<b>Scale Factor</b>	0.999976600		
<b>Elevation Adjust. Factor</b>	0.9999549488		
<b>Combined Adjust. Factor</b>	0.9999315499		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	39	10.2485484
<b>Longitude</b>	93	3	23.7807936
<b>Ellipsoid Height:</b>	259.521		
<b>Grid Northing (Meters)</b>	620,797.2580		
<b>Grid Easting (Meters)</b>	303,142.7820		

  

Location Description			
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT. 26.56 METERS SOUTHEAST OF THE CENTER OF "McNEELEY CIRCLE", 10.32 METERS WEST OF THE CENTER OF HWY-7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A			
MK # 2	N/A			
MK # 3	N/A			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    AHTD LR 1</p> <p>Ref Mon # 3    AP 1970 STA A3 HOT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260004	<b>Date Monumented</b> 9/13/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060686
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	598,214.8789	
<b>Easting (M)</b>	300,503.5200	
<b>Elevation (M)*</b>	137.261	
<b>Northing (SFT)</b>	1,962,643.3152	
<b>Easting (SFT)</b>	985,901.9652	
<b>Elevation (SFT)*</b>	450.330	

  

<b>Convergence Angle</b>	0	36	21.6979605
<b>Scale Factor</b>	0.999944577		
<b>Elevation Adjust. Factor</b>	0.9999784597		
<b>Combined Adjust. Factor</b>	0.9999230379		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE COVER	86	14.70	48.2
<b>MK # 2</b>	WATER METER	136	14.75	48.4
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	203	15.15	49.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD LR 1 <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> HOPEPORT	Elevation by 3 wire from NGS point AP 1970 A3 HOT

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 7, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO SOUTH ON STATE HIGHWAY 7 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7, 13.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE PAVED ENTRANCE TO THE HOT SPINGS MALL AND 0.43 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A SIDEWALK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.331 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260004A	<b>Date Monumented</b> 9/13/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060686
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	598,464.3199	
<b>Easting (M)</b>	301,001.8680	
<b>Elevation (M)*</b>	138.977	
<b>Northing (SFT)</b>	1,963,461.6895	
<b>Easting (SFT)</b>	987,536.9619	
<b>Elevation (SFT)*</b>	455.960	

  

<b>Convergence Angle</b>	0	36	10.8288630
<b>Scale Factor</b>	0.999944867		
<b>Elevation Adjust. Factor</b>	0.9999781905		
<b>Combined Adjust. Factor</b>	0.9999230587		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE COVER	85	14.60	47.9
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	99	13.15	43.1
<b>MK # 3</b>	WATER METER	232	10.35	34.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD LR 1 <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> HOPEPORT	Elevation by 3 wire from NGS point AP 1970 A3 HOT

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    34    27    4.7816280

**Longitude**    93    4    38.6224500

**Ellipsoid Height (M):**    111.963   

**Geoid Height (M):**    -27.051

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 7, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO SOUTH ON STATE HIGHWAY 7 FOR 2.41 K M (1.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.45 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.331 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260005	<b>Date Monumented</b> 9/13/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 060686,061312
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,056.0099	
<b>Easting (M)</b>	301,430.1910	
<b>Elevation (M)*</b>	170.741	
<b>Northing (SFT)</b>	1,968,683.7591	
<b>Easting (SFT)</b>	988,942.2183	
<b>Elevation (SFT)*</b>	560.173	

  

<b>Convergence Angle</b>	0	36	1.8030843
<b>Scale Factor</b>	0.999946722		
<b>Elevation Adjust. Factor</b>	0.9999732059		
<b>Combined Adjust. Factor</b>	0.9999199293		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, AT THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 88 (HIGDON FERRY ROAD). THE STATION IS SET WEST OF THE WEST END OF THE U.S. HIGHWAY 270 OVERPASS OF STATE HIGHWAY 88, THE STATION IS 8.85 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE, 6.75 METERS SOUTHWEST OF THE WEST END OF THE BRIDGE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5102 BY 3 WIRE LEVELING FROM AN AHTD CAP SET IN BRIDGE NUMBER 6369. THE SHOT DISTANCE IS 1062.170 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH IN TOP OF METAL GUARD RAIL POS	298	3.35	11.0	
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POS	26	2.26	7.4	
MK # 3	PUNCH IN TOP OF METAL GUARD RAIL POS	62	6.12	20.1	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD LR 1 <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> HOPEPORT	Elevation by 3 wire from NGS point AP 1970 A3 HOT

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260005A	<b>Date Monumented</b> 9/13/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 060686
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	600,064.9339				
<b>Easting (M)</b>	302,492.2390				
<b>Elevation (M)*</b>	153.496				
<b>Northing (SFT)</b>	1,968,713.0373				
<b>Easting (SFT)</b>	992,426.6208				
<b>Elevation (SFT)*</b>	503.595				

  

<b>Convergence Angle</b>	0	35	38.5142770
<b>Scale Factor</b>	0.999946746		
<b>Elevation Adjust. Factor</b>	0.9999759121		
<b>Combined Adjust. Factor</b>	0.9999226593		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE U.S. HIGHWAY 270 WEST BOUND ON RAMP, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO WESTERLY ON THE ON RAMP FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.48 METERS SOUTH OF THE CENTER OF A FRONTAGE ROAD, 14.46 METERS NORTH OF THE CENTER OF THE ON RAMP AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 1062.170 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					260005
MK # 2	NONE					268 55 28.50774
MK # 3	NONE					269 31 06.89253

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1	Elevation by 3 wire from NGS point AP 1970 A3 HOT
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 HOPEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260006	<b>Date Monumented</b> 9/20/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60032
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	597,646.7139	
<b>Easting (M)</b>	289,489.2070	
<b>Elevation (M)*</b>	160.096	
<b>Northing (SFT)</b>	1,960,779.2605	
<b>Easting (SFT)</b>	949,765.8400	
<b>Elevation (SFT)*</b>	525.248	

  

<b>Convergence Angle</b>	0	40	23.0456219
<b>Scale Factor</b>	0.999943797		
<b>Elevation Adjust. Factor</b>	0.9999748763		
<b>Combined Adjust. Factor</b>	0.9999186748		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF RCP	319	30.81	101.1
<b>MK # 2</b>	BURIED CABLE WARNING SIGN	0	8.54	28.0
<b>MK # 3</b>	CP	213	26.70	87.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ MK	Elevation based 3 wire NGS point HEMP
<b>Ref Mon # 2</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 3</b> DE QUEEN CORS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 26 34.0875204
<b>Longitude</b>	93 12 9.2584260
<b>Ellipsoid Height (M):</b>	144.109
<b>Geoid Height (M):</b>	-27.316

Location Description
<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, IN LAKE HAMILTON. THE STATION IS 20.49 METERS SOUTH-SOUTHWEST OF THE CENTER OF STATE HIGHWAY 227, 13.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.</p>

<b>AZ Mark Station</b>	260006A
<b>Geodetic Azimuth</b>	268 32 47.41777
<b>Grid Azimuth</b>	269 13 10.42963

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260006A	<b>Date Monumented</b> 9/20/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60032,061620
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	597,642.7289	
<b>Easting (M)</b>	289,196.6500	
<b>Elevation (M)*</b>	170.348	0.0020
<b>Northing (SFT)</b>	1,960,766.1864	
<b>Easting (SFT)</b>	948,806.0092	
<b>Elevation (SFT)*</b>	558.883	

  

<b>Convergence Angle</b>	0	40	29.4585683
<b>Scale Factor</b>	0.999943789		
<b>Elevation Adjust. Factor</b>	0.9999732676		
<b>Combined Adjust. Factor</b>	0.9999170581		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, LOCATED IN LAKE HAMILTON, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.23 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	OLD UTILITY POLE AT THE WEST END OF FENCE	89	15.70	51.5
MK # 2	BURIED CABLE WARING SIGN	275	8.15	26.7
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    MENAPORT AZ MK Ref Mon # 2    AP 1970 STA A3 HOT Ref Mon # 3    DE QUEEN CORS	<b>Comments</b> Elevation based 3 wire NGS point HEMP
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260007	<b>Date Monumented</b> 9/20/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60032
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	599,981.9869	
<b>Easting (M)</b>	294,812.6560	
<b>Elevation (M)*</b>	148.391	
<b>Northing (SFT)</b>	1,968,440.9020	
<b>Easting (SFT)</b>	967,231.1889	
<b>Elevation (SFT)*</b>	486.846	

  

<b>Convergence Angle</b>	0	38	26.9069712
<b>Scale Factor</b>	0.999946550		
<b>Elevation Adjust. Factor</b>	0.9999767132		
<b>Combined Adjust. Factor</b>	0.9999232644		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 192, LOCATED ABOUT 3.22 KM (2.00 MI) SOUTHWEST OF HOT SPRINGS, GO NORTHEAST ON U.S. HIGHWAY 70 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.59 METERS EAST-SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 70, 8.60 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE PAVED ENTRANCE TO HARVAST FOODS AND 1.65 METERS EAST-SOUTHEAST OF THE BACK OF CURB. THE STATION MARK IS STANDARD 64mm CAP STAMPED "260007 1999" SET ON TOP OF AN IRON ROD 0.48 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 432.201 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	MAN HOLE COVER	228	4.25	13.9	260007A	
MK # 2	NONE				214 57 14.37750	
MK # 3	NONE				215 35 41.25445	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    MENAPORT AZ MK	<p>Elevation based 3 wire NGS point HEMP</p>
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260007A	<b>Date Monumented</b> 9/20/1999	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60032
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	599,630.5648	
<b>Easting (M)</b>	294,561.1110	
<b>Elevation (M)*</b>	139.720	
<b>Northing (SFT)</b>	1,967,287.9447	
<b>Easting (SFT)</b>	966,405.9117	
<b>Elevation (SFT)*</b>	458.398	

  

<b>Convergence Angle</b>	0	38	32.3368485
<b>Scale Factor</b>	0.999946134		
<b>Elevation Adjust. Factor</b>	0.9999780739		
<b>Combined Adjust. Factor</b>	0.9999242090		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 192, LOCATED ABOUT 3.22 KM (2.00 MI) SOUTHWEST OF HOT SPRINGS, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A SHELL PIT, 10.6 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260007A 1999" SET ON TOP OF AN IRON ROD 0.40 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 432.201 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					260007
MK # 2	NONE					34 57 08.887660
MK # 3	NONE					35 35 41.254449

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    MENAPORT AZ MK	<p>Elevation based 3 wire NGS point HEMP</p>
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260008	<b>Date Monumented</b> 8/20/2001	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 227	<b>Job Number:</b> 060984,061620
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,847.4789	
<b>Easting (M)</b>	285,518.0040	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,971,280.4370	
<b>Easting (SFT)</b>	936,736.9848	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	50.9635530
<b>Scale Factor</b>	0.999947449		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	267	26.70	87.6
<b>MK # 2</b>	CORRIGATED METAL PIPE	101	30.30	99.4
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	260008A
<b>Geodetic Azimuth</b>	269 48 13
<b>Grid Azimuth</b>	270 30 04

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 2</b> MENAPORT AZ MK	
<b>Ref Mon # 3</b> 260006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260008A	<b>Date Monumented</b> 8/20/2001	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 227	<b>Job Number:</b> 060984,061620
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,853.7948	
<b>Easting (M)</b>	284,795.9540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,971,301.1584	
<b>Easting (SFT)</b>	934,368.0591	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	42	6.8005829
<b>Scale Factor</b>	0.999947446		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227 LOCATED IN HEMPWALLACE, GO NORTHWEST ON STATE HIGHWAY 227 FOR 7.355 KM (4.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 227 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260008A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 722.124 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	260008
MK # 2	NONE				<b>Geodetic Azimuth</b>	89 47 57
MK # 3	NONE				<b>Grid Azimuth</b>	90 30 04

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 2</b> MENAPORT AZ MK	
<b>Ref Mon # 3</b> 260006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260009	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> N/A	<b>Job Number:</b> 060978
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,252.5210	
<b>Easting (M)</b>	292,326.7210	
<b>Elevation (M)*</b>	148.599	

  

<b>Northing (SFT)</b>	2,008,698.4793	
<b>Easting (SFT)</b>	959,075.2505	
<b>Elevation (SFT)*</b>	487.529	

  

<b>Convergence Angle</b>	0 39	24.5071172
<b>Scale Factor</b>	0.999962833	
<b>Elevation Adjust. Factor</b>	0.9999766805	
<b>Combined Adjust. Factor</b>	0.9999395144	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO NORTH ON MAIN STREET FOR 0.10 MILES TO THE JUNCTION OF BLAKELY DAM ROAD AND THE STATION ON THE LEFT IN THE LAWN OF THE MOUNTAIN PINE FIRST ASSEMBLY OF GOD CHURCH. THE STATION IS 14.90 METERS NORTHEAST OF THE CENTER OF MOUNTAIN VIEW STREET, 12.10 METERS SOUTHWEST OF THE CENTER OF BLAKELY DAM ROAD, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&amp;GS BM M 161 PID EJ1062.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	145	10.55	34.6
MK # 2	CORNER OF A ROCK HEAD WALL	110	18.20	59.7
MK # 3	LIGHT POLE	261	22.40	73.5

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260009A	<b>Date Monumented</b> 4/29/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> N/A	<b>Job Number:</b> 060978
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 611,859.4399		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 292,355.1630		<b>Latitude</b> 34 34 16.3951752
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 10 23.3750244
<b>Northing (SFT)</b> 2,007,408.8457		<b>Ellipsoid Height (M):</b> 116.337
<b>Easting (SFT)</b> 959,168.5639		<b>Geoid Height (M):</b> -27.561
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 39 23.7836682	<b>Location Description</b>  TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO SOUTH ON MAIN STREET FOR 0.14 MILES TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS NORTH OF THE CENTER OF FIFTH STREET, 8.40 METERS EAST OF THE CENTER OF MAIN STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999962253	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	234	21.70	71.2
MK # 2	POWER POLE	15	27.30	89.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260010	<b>Date Monumented</b> 4/29/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 227	<b>Job Number:</b> 060978
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,452.4189	
<b>Easting (M)</b>	295,316.1720	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,996,230.9777	
<b>Easting (SFT)</b>	968,883.1410	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	17.9345770
<b>Scale Factor</b>	0.999957428		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	358	13.25	43.5
<b>MK # 2</b>	GAS METER	348	9.45	31.0
<b>MK # 3</b>	FIBER OPTICS CABLE MARKER	190	8.20	26.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ MK	
<b>Ref Mon # 2</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 3</b> DE QUEEN CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 26.9184264
<b>Longitude</b>	93 8 25.7223768
<b>Ellipsoid Height (M):</b>	137.474
<b>Geoid Height (M):</b>	-27.402

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 NORTH AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO NORTH ON STATE HIGHWAY 227 FOR 2.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 227 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260010 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260010A	<b>Date Monumented</b> 4/29/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 227	<b>Job Number:</b> 060978
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,017.2529	
<b>Easting (M)</b>	295,305.1120	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,994,803.2706	
<b>Easting (SFT)</b>	968,846.8550	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	18.0709143
<b>Scale Factor</b>	0.999956826		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 NORTH AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO NORTH ON STATE HIGHWAY 227 FOR 2.68 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 227 AND 0.92 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260010A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	190	8.80	28.9	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MENAPORT AZ MK</p> <p>Ref Mon # 2    AP 1970 STA A3 HOT</p> <p>Ref Mon # 3    DE QUEEN CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260011	<b>Date Monumented</b> 4/29/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059,CA0607
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	603,014.6329	
<b>Easting (M)</b>	297,866.1720	
<b>Elevation (M)*</b>	161.866	

  

<b>Northing (SFT)</b>	1,978,390.5081	
<b>Easting (SFT)</b>	977,249.2660	
<b>Elevation (SFT)*</b>	531.056	

  

<b>Convergence Angle</b>	0	37	20.6668753
<b>Scale Factor</b>	0.999950280		
<b>Elevation Adjust. Factor</b>	0.9999745985		
<b>Combined Adjust. Factor</b>	0.9999248798		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS. GO EAST OF U.S. HIGHWAY 270 FOR 1.18 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS WEST OF THE CENTER WALL IN U.S. HIGHWAY 270 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260011 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER BRIDGE	358	18.40	60.4
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	260011A
<b>Geodetic Azimuth</b>	293 26 39
<b>Grid Azimuth</b>	294 04 00

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MENAPORT AZ MK</p> <p><b>Ref Mon # 2</b>    AP 1970 STA A3 HOT</p> <p><b>Ref Mon # 3</b>    DE QUEEN CORS</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>Digital Levels by B&amp;F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260011A	<b>Date Monumented</b> 4/29/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059,CA0607
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	603,382.4419	
<b>Easting (M)</b>	297,042.6380	
<b>Elevation (M)*</b>	126.924	
<b>Northing (SFT)</b>	1,979,597.2281	
<b>Easting (SFT)</b>	974,547.3882	
<b>Elevation (SFT)*</b>	416.417	

  

<b>Convergence Angle</b>	0	37	38.8209319
<b>Scale Factor</b>	0.999950731		
<b>Elevation Adjust. Factor</b>	0.9999800819		
<b>Combined Adjust. Factor</b>	0.9999308138		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO EAST ON U.S. HIGHWAY 270 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS NORTHWEST OF THE BACK OF A CONCRETE CURB, 11.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	232	16.50	54.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ MK <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> DE QUEEN CORS	Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260012	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059,CA0607
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	604,974.0039	
<b>Easting (M)</b>	294,342.1910	
<b>Elevation (M)*</b>	147.899	
<b>Northing (SFT)</b>	1,984,818.8778	
<b>Easting (SFT)</b>	965,687.6716	
<b>Elevation (SFT)*</b>	485.232	

  

<b>Convergence Angle</b>	0	38	38.4546120
<b>Scale Factor</b>	0.999952734		
<b>Elevation Adjust. Factor</b>	0.9999767904		
<b>Combined Adjust. Factor</b>	0.9999295255		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	245	2.85	9.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 MENAPORT AZ MK	Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260012A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059,CA0607
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	604,967.8119	
<b>Easting (M)</b>	294,836.2550	
<b>Elevation (M)*</b>	149.674	
<b>Northing (SFT)</b>	1,984,798.5629	
<b>Easting (SFT)</b>	967,308.6133	
<b>Elevation (SFT)*</b>	491.056	

  

<b>Convergence Angle</b>	0	38	27.6127275
<b>Scale Factor</b>	0.999952734		
<b>Elevation Adjust. Factor</b>	0.9999765118		
<b>Combined Adjust. Factor</b>	0.9999292469		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE POLE	92	14.20	46.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 MENAPORT AZ MK	Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260013	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,120.1978	
<b>Easting (M)</b>	289,756.1330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,985,298.5156	
<b>Easting (SFT)</b>	950,641.5797	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	19.1152997
<b>Scale Factor</b>	0.999952856		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.42 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.20 METERS WEST OF THE CENTER OF A CONCRETE ENTRANCE TO A MINI STORAGE, 10.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, 9.35 METERS SOUTH OF THE BACK OF A CONCRETE CURB, AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER YELLOW METAL BUI	343	13.45	44.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MENAPORT AZ MK</p> <p>Ref Mon # 2    AP 1970 STA A3 HOT</p> <p>Ref Mon # 3    DE QUEEN CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260013A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,182.1109	
<b>Easting (M)</b>	289,282.6210	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,985,501.6422	
<b>Easting (SFT)</b>	949,088.0657	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	29.5207638
<b>Scale Factor</b>	0.999952930		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.70 METERS WEST OF THE CENTER OF AN ASPHALT DRIVE, 20.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	LIGHT POLE	209	8.40	27.6		260013
MK # 2						96 46 28
MK # 3						97 26 58

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260014	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	604,933.3669	
<b>Easting (M)</b>	284,595.6780	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,984,685.5546	
<b>Easting (SFT)</b>	933,710.9869	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	42	12.2913097
<b>Scale Factor</b>	0.999952533		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.69 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	96	13.00	42.7
MK # 2	POWER POLE	139	15.10	49.5
MK # 3	END OF METAL GUARD RAIL	306	1.85	6.1

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    MENAPORT AZ MK	
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260014A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	605,194.4499				
<b>Easting (M)</b>	284,996.7700				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,985,542.1244				
<b>Easting (SFT)</b>	935,026.9029				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	42	3.5612035
<b>Scale Factor</b>	0.999952879		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF A CONCRETE ENTRANCE, 11.40 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	REINFORCED CONCRETE PIPE	28	5.80	19.0	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MENAPORT AZ MK</p> <p>Ref Mon # 2    AP 1970 STA A3 HOT</p> <p>Ref Mon # 3    DE QUEEN CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260015	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,918.3979	
<b>Easting (M)</b>	281,058.7880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,987,917.2771	
<b>Easting (SFT)</b>	922,107.0403	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	30.1658397
<b>Scale Factor</b>	0.999953765		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 3.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END METAL GUARD RAIL	34	2.40	7.9
MK # 2	SOUTHWEST CORNER BRIDGE	276	22.10	72.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    MENAPORT AZ MK Ref Mon # 2    AP 1970 STA A3 HOT Ref Mon # 3    DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260015A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,917.5799	
<b>Easting (M)</b>	281,505.9880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,987,914.5934	
<b>Easting (SFT)</b>	923,574.2290	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	20.3528469
<b>Scale Factor</b>	0.999953771		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CONCRETE HEAD WALL	84	12.30	40.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 30 59.3375220
<b>Longitude</b>	93 17 26.0534508
<b>Ellipsoid Height (M):</b>	162.088
<b>Geoid Height (M):</b>	-27.656

Location Description
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 2.74 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260016	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	606,444.2769	
<b>Easting (M)</b>	276,870.3250	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,989,642.5985	
<b>Easting (SFT)</b>	908,365.3913	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	45	2.2225350
<b>Scale Factor</b>	0.999954391		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	260016A
MK # 2					<b>Geodetic Azimuth</b>	75 10 44
MK # 3					<b>Grid Azimuth</b>	75 55 47

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260016A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	606,573.1919	
<b>Easting (M)</b>	277,384.6790	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,990,065.5471	
<b>Easting (SFT)</b>	910,052.9010	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	44	50.9726360
<b>Scale Factor</b>	0.999954572		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.42 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	260016
MK # 2					<b>Geodetic Azimuth</b>	255 10 56
MK # 3					<b>Grid Azimuth</b>	255 55 47

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260017	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,795.1609	
<b>Easting (M)</b>	273,085.4290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,987,512.9571	
<b>Easting (SFT)</b>	895,947.7783	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	25.0841529
<b>Scale Factor</b>	0.999953465		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.17 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MENAPORT AZ MK</p> <p>Ref Mon # 2    AP 1970 STA A3 HOT</p> <p>Ref Mon # 3    DE QUEEN CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260017A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061059
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	606,101.7309	
<b>Easting (M)</b>	272,822.7750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,988,518.7621	
<b>Easting (SFT)</b>	895,086.0543	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	30.9382987
<b>Scale Factor</b>	0.999953865		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.41 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MENAPORT AZ MK</p> <p>Ref Mon # 2    AP 1970 STA A3 HOT</p> <p>Ref Mon # 3    DE QUEEN CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260018	<b>Date Monumented</b> 1/17/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061101,061298
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	599,967.3469	
<b>Easting (M)</b>	306,153.6700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,968,392.8706	
<b>Easting (SFT)</b>	1,004,439.1657	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	18.1968260
<b>Scale Factor</b>	0.999946674		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	HEADWALL	42	16.60	54.5
<b>MK # 2</b>	SOUTH WEST CORNER OF BRIDGE ON EAS T BOUND LANE	43	27.90	91.5
<b>MK # 3</b>	EDGE OF ASPH. EAST BOUND LANE	0	17.20	56.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1, LROC	
<b>Ref Mon # 2</b> RUSSPORT	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    27    55.2729924
<b>Longitude</b>	93    1    17.3826588
<b>Ellipsoid Height (M):</b>	105.139
<b>Geoid Height (M):</b>	-26.923

Location Description
<p>TO REACH FROM STATE HIGHWAY 270 AND HIGHWAY 128 (CARPENTER DAM ROAD) SOUTH OF HOT SPRINGS, STATION LOCATED IN SOUTH WESTERN CORNER OF INTERSECTION, NORTH OF EXIT RAMP, WEST OF HIGHWAY 128 AND SOUTH OF HIGHWAY 270 AND 0.50 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260018A	<b>Date Monumented</b> 1/17/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 270	<b>Job Number:</b> 061101,061298,061574,061574
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	599,857.2659	
<b>Easting (M)</b>	305,635.2850	
<b>Elevation (M)*</b>	138.707	0.0121
<b>Northing (SFT)</b>	1,968,031.7132	
<b>Easting (SFT)</b>	1,002,738.4309	
<b>Elevation (SFT)*</b>	455.073	

  

<b>Convergence Angle</b>	0	34	29.5408364
<b>Scale Factor</b>	0.999946538		
<b>Elevation Adjust. Factor</b>	0.9999782329		
<b>Combined Adjust. Factor</b>	0.9999247721		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EDGE OF CONCRET	0	1.35	4.4
<b>MK # 2</b>	HEAD WALL	215	3.10	10.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1, LROC	Elevation based on three wire levels from NGS benchmark B140 during job 061101.
<b>Ref Mon # 2</b> RUSSPORT	
<b>Ref Mon # 3</b> AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260019	<b>Date Monumented</b> 1/17/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 290	<b>Job Number:</b> 061101
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,228.8649	
<b>Easting (M)</b>	306,191.3600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,952,846.7009	
<b>Easting (SFT)</b>	1,004,562.8203	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	16.3342710
<b>Scale Factor</b>	0.999941356		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	200	6.10	20.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD HOPE 1, LROC	
Ref Mon # 2 RUSSPORT	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 25 21.5073480
<b>Longitude</b>	93 1 14.0548296
<b>Ellipsoid Height (M):</b>	117.243
<b>Geoid Height (M):</b>	-26.839

Location Description
<p>TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.30 MILES TO THE STATION ON THE RIGHT. 1.95 METERS EAST OF A NET WIRE FENCE WITH ONE STRAN BARB, 10.90 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.70 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260019A	<b>Date Monumented</b> 1/17/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 290	<b>Job Number:</b> 061101
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,613.0559	
<b>Easting (M)</b>	306,204.8930	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,954,107.1676	
<b>Easting (SFT)</b>	1,004,607.2198	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	34	16.1215877
<b>Scale Factor</b>	0.999941767		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	HEAD WALL	162	6.40	21.0
<b>MK # 2</b>	POWER POLE	352	17.10	56.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1, LROC	
<b>Ref Mon # 2</b> RUSSPORT	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    25    33.9799368
<b>Longitude</b>	93    1    13.6748280
<b>Ellipsoid Height (M):</b>	111.478
<b>Geoid Height (M):</b>	-26.846

Location Description
<p>TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.05 MILES TO THE STATION ON THE RIGHT. 1.50 METERS EAST OF A WHITE WOODEN THREE RAIL FENCE, 10.75 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.30 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260020A	<b>Date Monumented</b> 4/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60140,061330,061574,061574
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	604,316.2098	0.0030	
<b>Easting (M)</b>	308,179.7942	0.0020	
<b>Elevation (M)*</b>	137.899		
<b>Northing (SFT)</b>	1,982,660.7650		
<b>Easting (SFT)</b>	1,011,086.5415		
<b>Elevation (SFT)*</b>	452.423		

  

<b>Convergence Angle</b>	0	33	34.6951793
<b>Scale Factor</b>	0.999952070		
<b>Elevation Adjust. Factor</b>	0.9999783596		
<b>Combined Adjust. Factor</b>	0.9999304307		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	30	17.0543628
<b>Longitude</b>	92	59	59.6590080
<b>Ellipsoid Height:</b>	110.825		
<b>Grid Northing (Meters)</b>	604,316.2159		
<b>Grid Easting (Meters)</b>	308,179.7740		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	73	1.60	5.2
MK # 2	EDGE OF ASPH. EAST BOUND LANE		7.00	23.0
MK # 3	EDGE OF ASPH WEST BOUND LANE		7.50	24.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR, AB8283 <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARHP	<p>****OLD ELEV (137.8958 m) BY 3-WIRE LOOP FROM NGS R 79*****                  Updated Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.                  **NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. &amp; LEVELS DUE TO ROUNDING ERROR).</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260021	<b>Date Monumented</b> 4/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> N/A	<b>Job Number:</b> R60140
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	609,661.6696	0.0030			
<b>Easting (M)</b>	310,430.5535	0.0030			
<b>Elevation (M)*</b>	206.182				
<b>Northing (SFT)</b>	2,000,198.3277				
<b>Easting (SFT)</b>	1,018,470.9076				
<b>Elevation (SFT)*</b>	676.448				

  

<b>Convergence Angle</b>	0	32	46.4307700
<b>Scale Factor</b>	0.999959347		
<b>Elevation Adjust. Factor</b>	0.9999676444		
<b>Combined Adjust. Factor</b>	0.9999269927		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	33	11.2315716
<b>Longitude</b>	92	58	33.4252992
<b>Ellipsoid Height:</b>	179.016		
<b>Grid Northing (Meters)</b>	609,661.6789		
<b>Grid Easting (Meters)</b>	310,430.5240		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO POWER LINE CROSSING, CONTINUE ON DENISE LANE 400 FEET TO A METAL GATE AND PASS THRU GATE FOR 200 FEET AND TURN LEFT ON TO ROAD THAT ACESSES THE POWER LINE RIGHT OF WAY, TURN RIGHT ON TO POWER LINE AND GO NORTHWEST (UP THE HILL) FOR 0.3 MILES, PAST A DEER STAND ON THE LEFT AND 3 POWER POLES FROM WHERE ROAD ACESSES THE POWER LINE, TO THE STATION ON THE RIGHT IN THE MIDDLE OF THE POWER LINE RIGHT OF WAY. THE STATION IS SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	METAL POWER POLE	343		8.80	28.9
MK # 2	SAWED OFF WOODEN POWER POLE	309		7.80	25.6
MK # 3	SAWED OFF WOODEN POWER POLE	351		6.60	21.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="SALI, AHTD HOPE"/> <b>Ref Mon # 2</b> <input type="text" value="260001"/> <b>Ref Mon # 3</b> <input type="text" value="LROC"/>	<input type="text" value="3wire levels ran by S5105-S5111 in Job #R60140 from NGS R79 to K 103 in June 2005."/>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260021A	<b>Date Monumented</b> 4/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> N/A	<b>Job Number:</b> R60140
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	609,162.3700 0.0030
<b>Easting (M)</b>	310,578.7747 0.0030
<b>Elevation (M)*</b>	183.605
<b>Northing (SFT)</b>	1,998,560.2089
<b>Easting (SFT)</b>	1,018,957.1967
<b>Elevation (SFT)*</b>	602.378

  

<b>Convergence Angle</b>	0 32 43.0725588
<b>Scale Factor</b>	0.999958642
<b>Elevation Adjust. Factor</b>	0.9999711872
<b>Combined Adjust. Factor</b>	0.9999298304

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	32	55.0741092
<b>Longitude</b>	92	58	27.4251468
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	609,162.3799		
<b>Grid Easting (Meters)</b>	310,578.7460		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY	214	24.50	80.4
MK # 2	POWER POLE WITH GUY	212	29.80	97.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> SALI, AHTD HOPE <b>Ref Mon # 2</b> 260001 <b>Ref Mon # 3</b> LROC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on levels from 260021 by crew S5113 in May 2018 during job R60140.</td> </tr> </table>	Comments	Elevation based on levels from 260021 by crew S5113 in May 2018 during job R60140.
Comments			
Elevation based on levels from 260021 by crew S5113 in May 2018 during job R60140.			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD FOR 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS NORTH 10.7 METERS FROM THE CENTERLINE OF A PRIVATE DRIVE AND EAST 6.5 METERS OF THE CENTERLINE OF DENISE LANE. THE STATION IS WEST 0.50 METERS OF A WITNESS POST AND IS A STANDARD 64mm CAP STAMPED "260021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34 32 55.0737960
<b>Longitude</b>	92 58 27.4240200
<b>Ellipsoid Height (M):</b>	156.494 0.0160
<b>Geoid Height (M):</b>	-27.097

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260022	<b>Date Monumented</b> 11/4/2004	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 171	<b>Job Number:</b> 061156
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,098.1329	
<b>Easting (M)</b>	311,159.9880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,952,417.7910	
<b>Easting (SFT)</b>	1,020,864.0606	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	27.3989544
<b>Scale Factor</b>	0.999941269		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 290 AND 171 SOUTH OF HOT SPRINGS, GO NORTH ON HIGHWAY 171 FOR 0.20 MILES TO THE STATION ON THE LEFT. 10.4 METERS SOUTH OF THE NORTH EDGE OF THE ASPHALT, 1.85 METERS SOUTH OF THE NEAR EDGE OF THE ASPHALT AND 7.60 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260022 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: LROC</p> <p>Ref Mon # 2: UAM AFRC</p> <p>Ref Mon # 3: DQUA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260022A	<b>Date Monumented</b> 11/4/2004	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 171	<b>Job Number:</b> 061156
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,343.0539	
<b>Easting (M)</b>	311,192.4480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,953,221.3360	
<b>Easting (SFT)</b>	1,020,970.5565	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	26.7381341
<b>Scale Factor</b>	0.999941530		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	260022
<b>Geodetic Azimuth</b>	187 00 32
<b>Grid Azimuth</b>	187 32 58

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC	
Ref Mon # 2 UAM AFRC	
Ref Mon # 3 DQUA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260023	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428,061438
--------------------------	------------------------------------	------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,017.5869	
<b>Easting (M)</b>	311,701.0720	
<b>Elevation (M)*</b>	159.074	
<b>Northing (SFT)</b>	2,014,489.3664	
<b>Easting (SFT)</b>	1,022,639.2671	
<b>Elevation (SFT)*</b>	521.895	

  

<b>Convergence Angle</b>	0	32	19.4382930
<b>Scale Factor</b>	0.999965796		
<b>Elevation Adjust. Factor</b>	0.9999750367		
<b>Combined Adjust. Factor</b>	0.9999408336		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	217	39.93	131.0
MK # 2	SOUTHWEST GATE POST	109	33.22	109.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> DQUA, CSAL	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260023A	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,342.2010	
<b>Easting (M)</b>	311,880.3110	
<b>Elevation (M)*</b>	158.774	
<b>Northing (SFT)</b>	2,015,554.3711	
<b>Easting (SFT)</b>	1,023,227.3203	
<b>Elevation (SFT)*</b>	520.912	

  

<b>Convergence Angle</b>	0	32	15.5685404
<b>Scale Factor</b>	0.999966297		
<b>Elevation Adjust. Factor</b>	0.9999750838		
<b>Combined Adjust. Factor</b>	0.9999413816		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END PLASTIC CULVERT	300	0.76	2.5
MK # 2	POWER POLE	242	13.96	45.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> DQUA, CSAL	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260024	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428
--------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,312.1689	
<b>Easting (M)</b>	314,865.9340	
<b>Elevation (M)*</b>	148.563	
<b>Northing (SFT)</b>	2,018,736.6741	
<b>Easting (SFT)</b>	1,033,022.6518	
<b>Elevation (SFT)*</b>	487.412	

  

<b>Convergence Angle</b>	0	31	10.1854965
<b>Scale Factor</b>	0.999967844		
<b>Elevation Adjust. Factor</b>	0.9999766861		
<b>Combined Adjust. Factor</b>	0.9999445309		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF A BLOCK BLD	352	44.20	145.0
MK # 2	POWER POLE WITH A LIGHT AND A GUY WI	20	53.34	175.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARHP	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.
Ref Mon # 2    ARLR	
Ref Mon # 3    DQUA, CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260024A	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,047.1919	
<b>Easting (M)</b>	314,421.3940	
<b>Elevation (M)*</b>	150.648	
<b>Northing (SFT)</b>	2,017,867.3288	
<b>Easting (SFT)</b>	1,031,564.1901	
<b>Elevation (SFT)*</b>	494.252	

  

<b>Convergence Angle</b>	0	31	19.8973541
<b>Scale Factor</b>	0.999967425		
<b>Elevation Adjust. Factor</b>	0.9999763589		
<b>Combined Adjust. Factor</b>	0.9999437847		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	235	12.19	40.0
<b>MK # 2</b>	FENCE CORNER	57	18.53	60.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. ELEV UPDATED FROM 494.242 TO 494.252 DURING JOB 061428 DERIVED FROM BMS 523 AND GPS POINT 260025A.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> DQUA, CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260025	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428
--------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,625.4451	
<b>Easting (M)</b>	317,175.6597	
<b>Elevation (M)*</b>	146.138	
<b>Northing (SFT)</b>	2,023,045.3145	
<b>Easting (SFT)</b>	1,040,600.4769	
<b>Elevation (SFT)*</b>	479.454	

  

<b>Convergence Angle</b>	0	30	19.7036946
<b>Scale Factor</b>	0.999969952		
<b>Elevation Adjust. Factor</b>	0.9999770667		
<b>Combined Adjust. Factor</b>	0.9999470194		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	36	59.2273800
<b>Longitude</b>	92	54	11.2666680
<b>Ellipsoid Height:</b>	119.186		
<b>Grid Northing (Meters)</b>	616,625.4447		
<b>Grid Easting (Meters)</b>	317,175.6606		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.9 MILES TO THE STATION MARK ON THE LEFT ON TOP OF A LARGE HILL OVERLOOKING THE HIGHWAY, NORTH 66.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260025 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHP Ref Mon # 2    ARLR Ref Mon # 3    DQUA, CSAL	<b>Comments</b>  Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260025A	<b>Date Monumented</b> 6/4/2009	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 5	<b>Job Number:</b> 061259,061428
---------------------------	------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,683.6033	
<b>Easting (M)</b>	316,702.3831	
<b>Elevation (M)*</b>	148.198	
<b>Northing (SFT)</b>	2,023,236.1218	
<b>Easting (SFT)</b>	1,039,047.7352	
<b>Elevation (SFT)*</b>	486.212	

  

<b>Convergence Angle</b>	0	30	30.1126767
<b>Scale Factor</b>	0.999970038		
<b>Elevation Adjust. Factor</b>	0.9999767435		
<b>Combined Adjust. Factor</b>	0.9999467822		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	37	0.9786864
<b>Longitude</b>	92	54	29.8644876
<b>Ellipsoid Height:</b>	121.170		
<b>Grid Northing (Meters)</b>	616,683.5989		
<b>Grid Easting (Meters)</b>	316,702.3820		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 25.9 FEET OF THE CENTERLINE OF THE HIGHWAY, WEST 56.0 FEET OF A GATED FIELD ROAD AND NORTH 2.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260025A 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARHP</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    DQUA, CSAL</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260026	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	605,952.6787	
<b>Easting (M)</b>	303,066.9840	
<b>Elevation (M)*</b>	191.553	
<b>Northing (SFT)</b>	1,988,029.7467	
<b>Easting (SFT)</b>	994,312.2633	
<b>Elevation (SFT)*</b>	628.453	

  

<b>Convergence Angle</b>	0	35	27.2416944
<b>Scale Factor</b>	0.999954145		
<b>Elevation Adjust. Factor</b>	0.9999699400		
<b>Combined Adjust. Factor</b>	0.9999240864		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/LIGHTS	202	5.91	19.4
<b>MK # 2</b>	LIGHT POLE	332	5.21	17.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 31 8.4953748
<b>Longitude</b>	93 3 20.7452052
<b>Ellipsoid Height (M):</b>	164.439
<b>Geoid Height (M):</b>	-27.117

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO THE STATION MARK ON THE RIGHT, ACROSS THE ROAD FROM THE MAJESTIC HOTEL IN EDGE OF ASPHALT PARKING LOT AND EAST 37 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 CAP STAMPED "260026 2011" ON TOP OF A 2 FOOT REBAR DRIVEN FLUSH WITH THE ASPHALT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260026A	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	605,686.0497				
<b>Easting (M)</b>	302,736.9716				
<b>Elevation (M)*</b>	194.718				
<b>Northing (SFT)</b>	1,987,154.9814				
<b>Easting (SFT)</b>	993,229.5477				
<b>Elevation (SFT)*</b>	638.837				

  

<b>Convergence Angle</b>	0	35	34.4229130
<b>Scale Factor</b>	0.999953787		
<b>Elevation Adjust. Factor</b>	0.9999694434		
<b>Combined Adjust. Factor</b>	0.9999232318		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE	248	8.47	27.8
<b>MK # 2</b>	GAS METER	295	7.86	25.8
<b>MK # 3</b>	FIRE HYDRANT	111	16.34	53.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 30 59.7320532
<b>Longitude</b>	93 3 33.5758968
<b>Ellipsoid Height (M):</b>	167.600
<b>Geoid Height (M):</b>	-27.123

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO WHITTINGTON AVE AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, AT THE CORNER OF WHITTINGTON AND WALNUT, 28.8 FEET NORTHWEST OF THE CENTERLINE OF WHITTINGTON AVE AND NORTHEAST 27.3 FEET OF THE CENTERLINE OF WALNUT STREET. THE STATION MARK IS A STANDARD 2 ½ CAP STAMPED "260026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260027	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,493.3959	
<b>Easting (M)</b>	306,926.7169	
<b>Elevation (M)*</b>	216.821	
<b>Northing (SFT)</b>	1,999,646.2497	
<b>Easting (SFT)</b>	1,006,975.4037	
<b>Elevation (SFT)*</b>	711.353	

  

<b>Convergence Angle</b>	0	34	3.3133715
<b>Scale Factor</b>	0.999959060		
<b>Elevation Adjust. Factor</b>	0.9999659749		
<b>Combined Adjust. Factor</b>	0.9999250363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE /W TRANSFORMER	41	8.66	28.4
MK # 2	FIRE HYDRANT	296	21.09	69.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC
Ref Mon # 2	
Ref Mon # 3	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 33 4.6652148
<b>Longitude</b>	93 0 50.7903732
<b>Ellipsoid Height (M):</b>	189.748
<b>Geoid Height (M):</b>	-27.073

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.55 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 28.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 10.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260027A	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,144.7718	
<b>Easting (M)</b>	306,553.1060	
<b>Elevation (M)*</b>	205.695	
<b>Northing (SFT)</b>	1,998,502.4721	
<b>Easting (SFT)</b>	1,005,749.6486	
<b>Elevation (SFT)*</b>	674.851	

  

<b>Convergence Angle</b>	0	34	11.4388968
<b>Scale Factor</b>	0.999958562		
<b>Elevation Adjust. Factor</b>	0.9999677208		
<b>Combined Adjust. Factor</b>	0.9999262842		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.2 MILES TO THE MARK ON THE LEFT, 66.6 FEET SOUTHWEST OF THE CENTERLINE OF AN ASPHALT DRIVE TO THE PENTECOSTAL CHURCH, NORTHWEST 20.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 16.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	129	14.63	48.0
MK # 2	MAN HOLE	80	2.93	9.6
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 &amp; 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&amp;F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, &amp; 607 HS (*NOTE: Y 58, 523, &amp; W 104 ALL AGREED &amp; WERE HELD FIXED, HOT SPRINGS BM &amp; 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260028	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329,061428,061438
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 612,694.7383		<b>Geoid Datum:</b> GEOID96
<b>Easting (M)</b> 309,040.2177		<b>Latitude</b> 34 34 49.2264624
<b>Elevation (M)*</b> 188.948		<b>Longitude</b> 92 59 29.1098364
<b>Northing (SFT)</b> 2,010,149.3206		<b>Ellipsoid Height (M):</b> 161.826
<b>Easting (SFT)</b> 1,013,909.4476		<b>Geoid Height (M):</b> -27.099
<b>Elevation (SFT)*</b> 619.906		

  

<b>Convergence Angle</b> 0 33 17.5975357	<b>Location Description</b>
<b>Scale Factor</b> 0.999963755	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, 10.6 FEET NORTH OF A 6 FOOT CHAINLINK FENCE WITH 3 STRANS OF BARB WIRE AND SOUTH 23.6 FEET OF THE EDGE OF THE ASPHALT HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999703488	
<b>Combined Adjust. Factor</b> 0.9999341049	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE W/LIGHT & GUY	110	17.37	57.0	260028A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 &amp; 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&amp;F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, &amp; 607 HS (*NOTE: Y 58, 523, &amp; W 104 ALL AGREED &amp; WERE HELD FIXED, HOT SPRINGS BM &amp; 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260028A	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061329,061428,061438
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,960.4842	
<b>Easting (M)</b>	308,584.9711	
<b>Elevation (M)*</b>	204.809	
<b>Northing (SFT)</b>	2,011,021.1886	
<b>Easting (SFT)</b>	1,012,415.8594	
<b>Elevation (SFT)*</b>	671.945	

  

<b>Convergence Angle</b>	0	33	27.6515291
<b>Scale Factor</b>	0.999964147		
<b>Elevation Adjust. Factor</b>	0.9999678598		
<b>Combined Adjust. Factor</b>	0.9999320079		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.9 MILES TO THE MARK ON THE LEFT, 84.6 FEET SOUTHEAST OF AN ASPHALT TURN IN, AND SOUTHWEST 39.0 FEET OF THE EDGE OF THE ASPHALT HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260028A 2011" ON TOP OF A 1 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD R/W MARKER 3228	137	32.92	108.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260029	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 190	<b>Job Number:</b> 060432,061309
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	595,582.5940	
<b>Easting (M)</b>	299,173.3681	
<b>Elevation (M)*</b>	139.171	
<b>Northing (SFT)</b>	1,954,007.2271	
<b>Easting (SFT)</b>	981,537.9585	
<b>Elevation (SFT)*</b>	456.597	

  

<b>Convergence Angle</b>	0	36	50.2440299
<b>Scale Factor</b>	0.999941656		
<b>Elevation Adjust. Factor</b>	0.9999781600		
<b>Combined Adjust. Factor</b>	0.9999198173		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	85	15.24	50.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b> 3rd Order - digital	
<b>Elevation Datum:</b> NAVD 88	
<b>Geoid Datum:</b> Geoid 09	
<b>Latitude</b>	34 25 30.6312960
<b>Longitude</b>	93 5 49.0455744
<b>Ellipsoid Height (M):</b>	112.009
<b>Geoid Height (M):</b>	-27.149

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 190 (AMITY ROAD), SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 190 0.1 MILES TO THE MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 19.4 FEET AND EAST 62 FEET OF THE CENTERLINE OF CORENEA CIRCLE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260029A	<b>Date Monumented</b> 8/17/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 060432,061309
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	594,977.3217	
<b>Easting (M)</b>	299,059.1774	
<b>Elevation (M)*</b>	128.429	
<b>Northing (SFT)</b>	1,952,021.4296	
<b>Easting (SFT)</b>	981,163.3179	
<b>Elevation (SFT)*</b>	421.355	

  

<b>Convergence Angle</b>	0	36	52.6047152
<b>Scale Factor</b>	0.999941012		
<b>Elevation Adjust. Factor</b>	0.9999798457		
<b>Combined Adjust. Factor</b>	0.9999208589		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 190 (AMITY ROAD), SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 0.39 MILES TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF THE HIGHWAY 28.0 FEET AND SOUTH 85.4 FEET OF THE CENTERLINE OF TRABECCA CIR AND EAST 9.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260029A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	192	19.51	64.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY B&amp;F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260030	<b>Date Monumented</b> 8/18/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061309,060432,061440
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	591,868.7562	
<b>Easting (M)</b>	297,377.1782	
<b>Elevation (M)*</b>	160.767	
<b>Northing (SFT)</b>	1,941,822.7443	
<b>Easting (SFT)</b>	975,644.9588	
<b>Elevation (SFT)*</b>	527.450	

  

<b>Convergence Angle</b>	0	37	28.7281036
<b>Scale Factor</b>	0.999937832		
<b>Elevation Adjust. Factor</b>	0.9999747710		
<b>Combined Adjust. Factor</b>	0.9999126046		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	270	8.17	26.8
MK # 2	CMP	35	9.64	31.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260031	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	604,331.3229		
<b>Easting (M)</b>	308,904.7547		
<b>Elevation (M)*</b>	155.245		
<b>Northing (SFT)</b>	1,982,710.3485		
<b>Easting (SFT)</b>	1,013,465.0160		
<b>Elevation (SFT)*</b>	509.334		

  

<b>Convergence Angle</b>	0	33	18.7924964
<b>Scale Factor</b>	0.999952099		
<b>Elevation Adjust. Factor</b>	0.9999756375		
<b>Combined Adjust. Factor</b>	0.9999277377		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 30 17.7735276
<b>Longitude</b>	92 59 31.2448740
<b>Ellipsoid Height (M):</b>	128.215
<b>Geoid Height (M):</b>	-27.031

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON 70 0.9 MILES TO THE MARK IN THE MEDIAN, 17.2 FEET NORTH OF THE NORTH EDGE OF THE EAST BOUND LANE AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260032	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	605,155.4879				
<b>Easting (M)</b>	312,380.0052				
<b>Elevation (M)*</b>	178.436				
<b>Northing (SFT)</b>	1,985,414.2966				
<b>Easting (SFT)</b>	1,024,866.7337				
<b>Elevation (SFT)*</b>	585.418				

  

<b>Convergence Angle</b>	0	32	2.7123557
<b>Scale Factor</b>	0.999953214		
<b>Elevation Adjust. Factor</b>	0.9999719984		
<b>Combined Adjust. Factor</b>	0.9999252137		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY & TRANSFORMER	225	11.06	36.3
MK # 2	NORTHEAST CORNER METAL BUILDING	187	21.55	70.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2: ARCM	
Ref Mon # 3: ARHP	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 30 45.5918652
<b>Longitude</b>	92 57 15.3123984
<b>Ellipsoid Height (M):</b>	151.497
<b>Geoid Height (M):</b>	-26.942

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON 70 0.95 MILES TO BRATTON DRIVE AND TURN LEFT (NORTH) AND GO 0.5 MILES TO THE MARK ON THE RIGHT, 20.7 FEET SOUTH OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260032A	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	604,692.6482		
<b>Easting (M)</b>	312,730.6815		
<b>Elevation (M)*</b>	165.526		
<b>Northing (SFT)</b>	1,983,895.7966		
<b>Easting (SFT)</b>	1,026,017.2442		
<b>Elevation (SFT)*</b>	543.063		

  

<b>Convergence Angle</b>	0	31	54.9233547
<b>Scale Factor</b>	0.999952614		
<b>Elevation Adjust. Factor</b>	0.9999740242		
<b>Combined Adjust. Factor</b>	0.9999266395		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON HIGHWAY 70 1.5 MILES TO THE MARK ON THE LEFT, 36 FEET NORTHEAST OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	10	27.10	88.9
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AB8283</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260033	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330, CA0606
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,450.3607	
<b>Easting (M)</b>	316,999.9357	
<b>Elevation (M)*</b>	196.035	
<b>Northing (SFT)</b>	1,992,943.3917	
<b>Easting (SFT)</b>	1,040,023.9557	
<b>Elevation (SFT)*</b>	643.157	

  

<b>Convergence Angle</b>	0	30	21.7838816
<b>Scale Factor</b>	0.999956345		
<b>Elevation Adjust. Factor</b>	0.9999692367		
<b>Combined Adjust. Factor</b>	0.9999255831		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 4.7 MILES TO THE MARK ON THE LEFT, 5.0 FEET NORTHWEST OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE AND SOUTHEAST 12 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	337	4.15	13.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR, AB8283</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260033A	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330, CA0606
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,750.4887	
<b>Easting (M)</b>	317,597.5886	
<b>Elevation (M)*</b>	208.961	
<b>Northing (SFT)</b>	1,993,928.0617	
<b>Easting (SFT)</b>	1,041,984.7553	
<b>Elevation (SFT)*</b>	685.567	

  

<b>Convergence Angle</b>	0	30	8.7243264
<b>Scale Factor</b>	0.999956764		
<b>Elevation Adjust. Factor</b>	0.9999672083		
<b>Combined Adjust. Factor</b>	0.9999239737		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER HYDRANT	170	14.11	46.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. **NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. & LEVELS DUE TO ROUNDING ERROR).
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> ARHP	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34    32    11.3376876
<b>Longitude</b>	92    53    51.6498540
<b>Ellipsoid Height (M):</b>	182.107
<b>Geoid Height (M):</b>	-26.854

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 5.2 MILES TO THE MARK ON THE RIGHT, IN FRONT OF THE AHTD REST AREA, 4.3 FEET SOUTH SOUTHEAST OF THE SOUTH EDGE OF THE PAVEMENT FOR THE EAST BOUND LANE. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260033A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260034	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330, CA0606
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,837.0770	
<b>Easting (M)</b>	322,375.4399	
<b>Elevation (M)*</b>	167.940	
<b>Northing (SFT)</b>	2,000,773.8101	
<b>Easting (SFT)</b>	1,057,660.0891	
<b>Elevation (SFT)*</b>	550.984	

  

<b>Convergence Angle</b>	0	28	24.2343167
<b>Scale Factor</b>	0.999959749		
<b>Elevation Adjust. Factor</b>	0.9999736454		
<b>Combined Adjust. Factor</b>	0.9999333955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.6 MILES TO THE MARK ON THE LEFT, 5.5 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, 33.4 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 369 AND SOUTH 51.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260034 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR, AB8283</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260034A	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> 061330, CA0606
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,881.1758	
<b>Easting (M)</b>	322,847.8727	
<b>Elevation (M)*</b>	155.622	
<b>Northing (SFT)</b>	2,000,918.4909	
<b>Easting (SFT)</b>	1,059,210.0623	
<b>Elevation (SFT)*</b>	510.569	

  

<b>Convergence Angle</b>	0	28	13.8705527
<b>Scale Factor</b>	0.999959817		
<b>Elevation Adjust. Factor</b>	0.9999755785		
<b>Combined Adjust. Factor</b>	0.9999353964		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.9 MILES TO THE MARK ON THE LEFT, 4.0 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, AND SOUTH 46.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260034A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	302	5.33	17.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARLR, AB8283 <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.         </td> </tr> </table>	Comments	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Comments			
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260035	<b>Date Monumented</b> 7/14/2014	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061438
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	623,804.4991	0.0060	
<b>Easting (M)</b>	301,760.2274	0.0058	
<b>Elevation (M)*</b>	226.400		
<b>Northing (SFT)</b>	2,046,598.5941		
<b>Easting (SFT)</b>	990,025.0127		
<b>Elevation (SFT)*</b>	742.780		

  

<b>Convergence Angle</b>	0	36	0.0194786
<b>Scale Factor</b>	0.999981789		
<b>Elevation Adjust. Factor</b>	0.9999644718		
<b>Combined Adjust. Factor</b>	0.9999462614		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO NORTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 54.8 FT. WEST OF THE CENTERLINE OF HIGHWAY 7, AND 98.4 FT. NORTH OF A GRAVEL DRIVEWAY. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	272	2.15	7.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260035A	<b>Date Monumented</b> 7/14/2014	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061438
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	623,451.5768	0.0067			
<b>Easting (M)</b>	301,674.2942	0.0061			
<b>Elevation (M)*</b>	229.377				
<b>Northing (SFT)</b>	2,045,440.7149				
<b>Easting (SFT)</b>	989,743.0802				
<b>Elevation (SFT)*</b>	752.546				

  

<b>Convergence Angle</b>	0	36	1.8274463
<b>Scale Factor</b>	0.999981164		
<b>Elevation Adjust. Factor</b>	0.9999640046		
<b>Combined Adjust. Factor</b>	0.9999451693		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE CORNER OF BUILDING	4	38.80	127.3
<b>MK # 2</b>	EAST POST OF BILLBOARD "COLEMAN'S ROCK SHOP AND CRYSTAL MINE"	318	7.70	25.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.</td> </tr> </table>	Comments	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
Comments			
ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.			

  

Location Description
TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO SOUTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, AND 36.4 FT. WEST OF THE CENTERLINE OF HIGHWAY 7. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	260035
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260036	<b>Date Monumented</b> 7/12/2016	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061501
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	633,012.9604	0.0040			
<b>Easting (M)</b>	301,630.1224	0.0040			
<b>Elevation (M)*</b>	271.509				
<b>Northing (SFT)</b>	2,076,810.0209				
<b>Easting (SFT)</b>	989,598.1599				
<b>Elevation (SFT)*</b>	890.775				

  

<b>Convergence Angle</b>	0	36	5.0049948
<b>Scale Factor</b>	0.999999148		
<b>Elevation Adjust. Factor</b>	0.9999573932		
<b>Combined Adjust. Factor</b>	0.9999565413		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.
Ref Mon # 2: ARHP	
Ref Mon # 3: ARCM	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 45 46.1373012
<b>Longitude</b>	93 4 28.2169380
<b>Ellipsoid Height (M):</b>	243.539 0.0140
<b>Geoid Height (M):</b>	-27.993 0.0140

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.8 MILES TO THE MARK ON THE LEFT, NOERTHEAST 15 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260036A	<b>Date Monumented</b> 7/12/2016	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 7	<b>Job Number:</b> 061501
---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	633,228.1497 0.0040
<b>Easting (M)</b>	301,424.1522 0.0040
<b>Elevation (M)*</b>	273.961
<b>Northing (SFT)</b>	2,077,516.0211
<b>Easting (SFT)</b>	988,922.4060
<b>Elevation (SFT)*</b>	898.822

  

<b>Convergence Angle</b>	0	36	9.5876365
<b>Scale Factor</b>	0.999999575		
<b>Elevation Adjust. Factor</b>	0.9999570084		
<b>Combined Adjust. Factor</b>	0.9999565834		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	JESSIEVILLE CCC SIGN	70	66.30	217.5
<b>MK # 2</b>	NORTHWEST END OF A ROCK WALL	76	86.00	282.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 45 53.0498124
<b>Longitude</b>	93 4 36.4047492
<b>Ellipsoid Height (M):</b>	245.972 0.0140
<b>Geoid Height (M):</b>	-28.004 0.0140

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, NOERTHEAST 18.2 FEET OF THE CENTERLINE OF THE HIGHWAY, 27 FEET SOUTHEAST OF THE CENTERLINE OF AN ASPHALT TURN IN, 103.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT TURNIN AND SOUTHWEST 55.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036A 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	260036
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260037	<b>Date Monumented</b> 11/30/2020	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> RAND A	<b>Job Number:</b> 06X151
--------------------------	--------------------------------------	-------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	605,927.8521	0.0020	
<b>Easting (M)</b>	305,399.6876	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,987,948.2948		
<b>Easting (SFT)</b>	1,001,965.4751		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	34	36.0474065
<b>Scale Factor</b>	0.999954144		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARGS <b>Ref Mon # 3</b> ARLR, ARRV	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 18		
<b>Latitude</b>	34	31	8.4610488
<b>Longitude</b>	93	1	49.2763116
<b>Ellipsoid Height (M):</b>	138.945	0.0060	
<b>Geoid Height (M):</b>	-27.186	0.0060	

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND EAST 70B (E GRAND AVE), NORTHEAST OF HOT SPRINGS, GO EAST ON E70B (E GRAND AVE) FOR 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 32.1' OF THE C/L OF THE HIGHWAY AT THE TOP OF A BLUFF AND WEST 94.4' OF THE C/L OF A DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260037A	<b>Date Monumented</b> 11/30/2020	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> RAND A	<b>Job Number:</b> 06X151
---------------------------	--------------------------------------	-------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	605,984.2101	0.0020	
<b>Easting (M)</b>	305,833.7671	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,988,133.1960		
<b>Easting (SFT)</b>	1,003,389.6176		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	34	26.5343618
<b>Scale Factor</b>	0.999954225		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	27	9.08	29.8
MK # 2	CITY LIFE CHURCH SIGN	81	28.41	93.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARDQ Ref Mon # 2    ARGS Ref Mon # 3    ARLR, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    34    31    10.4314548

**Longitude**    93    1    32.2793436

**Ellipsoid Height (M):**    149.630    0.0060

**Geoid Height (M):**    -27.174    0.0060

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND E GRAND AVE, NORTHEAST OF HOT SPRINGS, GO EAST ON E GRAND AVE FOR 0.45 MILES TO THE MARK ON THE LEFT, NORTH 17" OF THE C/L OF E GRAND AVE. AND WEST 41.6' OF THE C/L OF A DRIVEWAY TO THE CITY OF LIFE CHURCH. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270001	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 291	<b>Job Number:</b> 001730
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	596,762.0069	
<b>Easting (M)</b>	346,928.0470	
<b>Elevation (M)*</b>	105.071	
<b>Northing (SFT)</b>	1,957,876.6843	
<b>Easting (SFT)</b>	1,138,213.1009	
<b>Elevation (SFT)*</b>	344.720	

  

<b>Convergence Angle</b>	0	19	23.5806597
<b>Scale Factor</b>	0.999943368		
<b>Elevation Adjust. Factor</b>	0.9999835112		
<b>Combined Adjust. Factor</b>	0.9999268801		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	245	20.10	65.9
<b>MK # 2</b>	GAS METER	55	18.00	59.1
<b>MK # 3</b>	GAS METER	139	20.10	65.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="SALIPOINT"/> <b>Ref Mon # 2</b> <input type="text" value="MALEPORT"/> <b>Ref Mon # 3</b> <input type="text" value="93620004"/>	Cross Reference Job: RX0026     

  

<p><b>Vertical Determined By:</b> LEVEL - Unkown Quality</p> <p><b>Elevation Datum:</b> NAVD 88</p> <p><b>Geoid Datum:</b></p> <p><b>Latitude</b> <input type="text" value="34"/> <input type="text" value="26"/> <input type="text" value="21.5829096"/></p> <p><b>Longitude</b> <input type="text" value="92"/> <input type="text" value="34"/> <input type="text" value="38.9709156"/></p> <p><b>Ellipsoid Height (M):</b> <input type="text" value="77.939"/> <input type="text"/></p> <p><b>Geoid Height (M):</b> <input type="text" value="-27.132"/> <input type="text"/></p>	
<p style="text-align: center;"><b>Location Description</b></p> <p>FROM THE JCT. OF HWY. 190 AND HWY. 291 IN THE TOWN OF TULL, GO SOUTH ON HWY. 291 FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 6.30 METERS WEST OF THE CENTERLINE OF HWY. 291 AND 0.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "270001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270001A	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 291	<b>Job Number:</b> 001730
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	596,746.6839	
<b>Easting (M)</b>	346,549.2700	
<b>Elevation (M)*</b>	105.211	
<b>Northing (SFT)</b>	1,957,826.4121	
<b>Easting (SFT)</b>	1,136,970.3967	
<b>Elevation (SFT)*</b>	345.180	

  

<b>Convergence Angle</b>	0	19	31.8831021
<b>Scale Factor</b>	0.999943349		
<b>Elevation Adjust. Factor</b>	0.9999834892		
<b>Combined Adjust. Factor</b>	0.9999268392		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	185	17.55	57.6
<b>MK # 2</b>	POWER POLE	220	23.80	78.1
<b>MK # 3</b>	THIRTY SIX INCH PIN OAK TREE	310	25.30	83.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SALIPORT	Cross Reference Job: RX0026
<b>Ref Mon # 2</b> MALEPORT	
<b>Ref Mon # 3</b> 93620004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270002	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 070244, RX0028
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	563,417.3630	
<b>Easting (M)</b>	362,643.5150	
<b>Elevation (M)*</b>	55.387	
<b>Northing (SFT)</b>	1,848,478.4651	
<b>Easting (SFT)</b>	1,189,772.9321	
<b>Elevation (SFT)*</b>	181.716	

  

<b>Convergence Angle</b>	0	13	36.1372470
<b>Scale Factor</b>	0.999920141		
<b>Elevation Adjust. Factor</b>	0.9999913080		
<b>Combined Adjust. Factor</b>	0.9999114497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.60 METER DIAMETER PINE	87	29.04	95.3
MK # 2	POWER POLE	10	29.07	95.4
MK # 3	WOODED LINE POST	172	11.57	37.9

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	MALEPORT
<b>Ref Mon # 2</b>	WARRPORT
<b>Ref Mon # 3</b>	TULIP

  

Comments
ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.51 KM (12.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.772 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 12.520 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270002A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 070244, RX0028
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	563,028.3550	
<b>Easting (M)</b>	362,623.9730	
<b>Elevation (M)*</b>	55.465	
<b>Northing (SFT)</b>	1,847,202.1947	
<b>Easting (SFT)</b>	1,189,708.8181	
<b>Elevation (SFT)*</b>	181.971	

  

<b>Convergence Angle</b>	0	13	36.5305387
<b>Scale Factor</b>	0.999920031		
<b>Elevation Adjust. Factor</b>	0.9999912958		
<b>Combined Adjust. Factor</b>	0.9999113275		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH IN TOP OF GUARD RAIL POST	351	4.46	14.6
<b>MK # 2</b>	PUNCH IN TOP OF GUARD RAIL POST	254	1.46	4.8
<b>MK # 3</b>	PUNCH IN TOP OF GUARD RAIL POST	201	5.44	17.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> MALEPORT	ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.
<b>Ref Mon # 2</b> WARRPORT	
<b>Ref Mon # 3</b> TULIP	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 8 9.1844592
<b>Longitude</b>	92 24 18.8960616
<b>Ellipsoid Height (M):</b>	28.745
<b>Geoid Height (M):</b>	-26.720

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.88 KM (12.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.85 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.75 METERS SOUTH OF THE SOUTHEAST CORNER OF A BRIDGE AND 0.39 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	270002
<b>Geodetic Azimuth</b>	2 38 56.38432
<b>Grid Azimuth</b>	2 52 32.91536

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270003A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 001914, RX0028
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	568,673.3799	
<b>Easting (M)</b>	363,028.3260	
<b>Elevation (M)*</b>	79.092	
<b>Northing (SFT)</b>	1,865,722.5806	
<b>Easting (SFT)</b>	1,191,035.4329	
<b>Elevation (SFT)*</b>	259.488	

  

<b>Convergence Angle</b>	0	13	28.1801823
<b>Scale Factor</b>	0.999921992		
<b>Elevation Adjust. Factor</b>	0.9999875880		
<b>Combined Adjust. Factor</b>	0.9999095810		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone junction box	089	38.67	126.9
MK # 2	30 inch CMP	158	75.72	248.4
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 14.00 KM (8.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 80.98 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE WAY, 21.10 METERS EAST OF A WEB WIRE FENCE, 17.476 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	Freeman
<b>Geodetic Azimuth</b>	154 56 10
<b>Grid Azimuth</b>	155 09 39

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270004	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 001914, RX0028
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,501.0789	
<b>Easting (M)</b>	362,301.3800	
<b>Elevation (M)*</b>	82.040	
<b>Northing (SFT)</b>	1,874,999.7897	
<b>Easting (SFT)</b>	1,188,650.4442	
<b>Elevation (SFT)*</b>	269.159	

  

<b>Convergence Angle</b>	0	13	44.3176740
<b>Scale Factor</b>	0.999923268		
<b>Elevation Adjust. Factor</b>	0.9999871255		
<b>Combined Adjust. Factor</b>	0.9999103944		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	South end of 18 in. CMP	076	36.43	119.5
<b>MK # 2</b>	North end of 18in. CMP	115	31.52	103.4
<b>MK # 3</b>	Fire hydrant	193	62.50	205.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83   N 81 070005 LROC UAM	

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 10.88 KM (6.76 MI) TO THE STATION ON THE RIGHT. THE STATION IS 66.578 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE WAY, 17.181 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.02 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270004A	<b>Date Monumented</b> 1/7/1997	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 001914
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,115.8699	
<b>Easting (M)</b>	362,216.4910	
<b>Elevation (M)*</b>	79.968	
<b>Northing (SFT)</b>	1,873,735.9832	
<b>Easting (SFT)</b>	1,188,371.9376	
<b>Elevation (SFT)*</b>	262.361	

  

<b>Convergence Angle</b>	0	13	46.1401005
<b>Scale Factor</b>	0.999923083		
<b>Elevation Adjust. Factor</b>	0.9999874506		
<b>Combined Adjust. Factor</b>	0.9999105346		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16 inch pine	028	14.55	47.7
<b>MK # 2</b>	15 inch pine	162	12.84	42.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
<b>Ref Mon # 2</b> 700014,270005    070003,0700	
<b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    12    31.6242828
<b>Longitude</b>	92    24    36.0654768
<b>Ellipsoid Height (M):</b>	53.925
<b>Geoid Height (M):</b>	-25.998

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 11.35 KM (7.05MI) TO THE STATION ON THE LEFT. THE STATION IS 46.00 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 18.43 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

<b>AZ Mark Station</b>	270004
<b>Geodetic Azimuth</b>	012 11 54
<b>Grid Azimuth</b>	012 25 40

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270010	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 46	<b>Job Number:</b> 020328
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	572,260.1399	
<b>Easting (M)</b>	350,021.4430	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,877,490.1423	
<b>Easting (SFT)</b>	1,148,362.0176	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	12.9141966
<b>Scale Factor</b>	0.999923616		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	226	23.40	76.8
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	270010A
<b>Geodetic Azimuth</b>	209 06 18
<b>Grid Azimuth</b>	209 24 31

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 De Queen CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270010A	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 46	<b>Job Number:</b> 020328
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,774.4760	
<b>Easting (M)</b>	349,747.6890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,875,896.7600	
<b>Easting (SFT)</b>	1,147,463.8763	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	18.8438664
<b>Scale Factor</b>	0.999923374		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	288	6.50	21.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 De Queen CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 12 51.1116876
<b>Longitude</b>	92 32 43.3056120
<b>Ellipsoid Height (M):</b>	27.406
<b>Geoid Height (M):</b>	-26.108

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 46 AND HIGHWAY 291, WEST OF SHERIDAN, GO WEST ON HIGHWAY 46 1.75 MILES TO THE STATION ON THE RIGHT. 7.30 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY, 5.30 METERS SOUTHWEST OF A GRAVEL TURN IN, AND 6.55 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270011	<b>Date Monumented</b> 5/5/2003	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 291	<b>Job Number:</b> 020328
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	577,151.0189	
<b>Easting (M)</b>	349,471.0760	
<b>Elevation (M)*</b>	72.117	
<b>Northing (SFT)</b>	1,893,536.3012	
<b>Easting (SFT)</b>	1,146,556.3552	
<b>Elevation (SFT)*</b>	236.605	

  

<b>Convergence Angle</b>	0	18	25.5224353
<b>Scale Factor</b>	0.999926375		
<b>Elevation Adjust. Factor</b>	0.9999886826		
<b>Combined Adjust. Factor</b>	0.9999150584		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM STATE HIGHWAY 46 AND HIGHWAY 291, SOUTH WEST OF SHERIDAN AND NORTH EAST OF LEOLA, GO NORTH ON HIGHWAY 291 FOR 2.35 MILES TO THE STATION ON THE RIGHT, 4.0 METERS SOUTH OF A GRAVEL FIELD ROAD TURN IN, 9.85 METERS EAST OF THE CENTERLINE OF STATE HIGHWAY 291 AND 2.3 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 270011 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	X-TIE GATE POST	57	3.00	9.8		
MK # 2	POWER POLE	170	9.50	31.2		
MK # 3	MAIL BOX #3743	203	9.40	30.8		

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    LROC, AHTD MON 1 Ref Mon # 2    AHTD HOPE 1 Ref Mon # 3    De Queen CORS	<b>Comments</b>  DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270011A	<b>Date Monumented</b> 5/5/2003	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 291	<b>Job Number:</b> 020328
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	576,450.2549	
<b>Easting (M)</b>	349,419.3200	
<b>Elevation (M)*</b>	74.805	
<b>Northing (SFT)</b>	1,891,237.2113	
<b>Easting (SFT)</b>	1,146,386.5524	
<b>Elevation (SFT)*</b>	245.423	

  

<b>Convergence Angle</b>	0	18	26.5725297
<b>Scale Factor</b>	0.999925943		
<b>Elevation Adjust. Factor</b>	0.9999882608		
<b>Combined Adjust. Factor</b>	0.9999142046		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	X-TIE FENCE CORNER POST	133	8.80	28.9
<b>MK # 2</b>	POWER POLE WITH TWO GUYS	168	29.00	95.1
<b>MK # 3</b>	METAL GATE	280	18.70	61.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> LROC, AHTD MON 1	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> De Queen CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 15 22.8111552
<b>Longitude</b>	92 32 57.1144236
<b>Ellipsoid Height (M):</b>	41.995
<b>Geoid Height (M):</b>	-26.106

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 46 AND HIGHWAY 291, SOUTH WEST OF SHERIDAN, AND NORTH EAST OF LEOLA, GO NORTH ON HIGHWAY 291 FOR 1.95 MILES TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF THE CENTERLINE OF HIGHWAY 291 AND 6.3 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270011A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270013	<b>Date Monumented</b> 3/30/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020275
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	581,990.6039	
<b>Easting (M)</b>	364,142.3250	
<b>Elevation (M)*</b>	71.846	
<b>Northing (SFT)</b>	1,909,414.1730	
<b>Easting (SFT)</b>	1,194,690.2779	
<b>Elevation (SFT)*</b>	235.713	

  

<b>Convergence Angle</b>	0	13	4.9368206
<b>Scale Factor</b>	0.999929738		
<b>Elevation Adjust. Factor</b>	0.9999887252		
<b>Combined Adjust. Factor</b>	0.9999184640		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	18	24.8275404
<b>Longitude</b>	92	23	22.4373264
<b>Ellipsoid Height:</b>	45.984		
<b>Grid Northing (Meters)</b>	581,990.9039		
<b>Grid Easting (Meters)</b>	364,142.5870		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK FENCE CORNER	260	6.80	22.3
MK # 2	NORTHEAST CORNER OF WOOD BLDGNG	214	27.05	88.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: LROC, DQUA	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2: CSAL	
Ref Mon # 3: 270006,270006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270013A	<b>Date Monumented</b> 3/30/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020275
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	582,207.4399	
<b>Easting (M)</b>	364,622.9460	
<b>Elevation (M)*</b>	74.109	
<b>Northing (SFT)</b>	1,910,125.5757	
<b>Easting (SFT)</b>	1,196,267.1153	
<b>Elevation (SFT)*</b>	243.139	

  

<b>Convergence Angle</b>	0	12	54.4337836
<b>Scale Factor</b>	0.999929902		
<b>Elevation Adjust. Factor</b>	0.9999883700		
<b>Combined Adjust. Factor</b>	0.9999182728		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	18	31.9239900
<b>Longitude</b>	92	23	3.6715200
<b>Ellipsoid Height:</b>	48.248		
<b>Grid Northing (Meters)</b>	582,207.7385		
<b>Grid Easting (Meters)</b>	364,623.2084		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		222	19.80	65.0
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 LROC, DQUA	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2 CSAL	
Ref Mon # 3 270006,270006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270014	<b>Date Monumented</b> 3/30/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 020275,020610
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	575,510.9740	
<b>Easting (M)</b>	363,044.3700	
<b>Elevation (M)*</b>	75.636	
<b>Northing (SFT)</b>	1,888,155.5872	
<b>Easting (SFT)</b>	1,191,088.0706	
<b>Elevation (SFT)*</b>	248.149	

  

<b>Convergence Angle</b>	0	13	28.4152732
<b>Scale Factor</b>	0.999925420		
<b>Elevation Adjust. Factor</b>	0.9999881304		
<b>Combined Adjust. Factor</b>	0.9999135513		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	14	54.3885216
<b>Longitude</b>	92	24	4.3863192
<b>Ellipsoid Height:</b>	49.753		
<b>Grid Northing (Meters)</b>	575,511.2732		
<b>Grid Easting (Meters)</b>	363,044.6318		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	50	13.40	44.0
MK # 2	TELEPHONE RISER	38	17.30	56.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: LROC, DQUA	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2: CSAL	
Ref Mon # 3: 270006,270006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270015	<b>Date Monumented</b> 4/4/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 020275,020344
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	588,198.9079	
<b>Easting (M)</b>	364,505.3280	
<b>Elevation (M)*</b>	96.791	
<b>Northing (SFT)</b>	1,929,782.5837	
<b>Easting (SFT)</b>	1,195,881.2303	
<b>Elevation (SFT)*</b>	317.555	

  

<b>Convergence Angle</b>	0	12	57.5029071
<b>Scale Factor</b>	0.999934848		
<b>Elevation Adjust. Factor</b>	0.9999848106		
<b>Combined Adjust. Factor</b>	0.9999196596		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	21	46.3645188
<b>Longitude</b>	92	23	9.1549608
<b>Ellipsoid Height:</b>	70.841		
<b>Grid Northing (Meters)</b>	588,199.2038		
<b>Grid Easting (Meters)</b>	364,505.5945		

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND STATE HIGHWAY 35W, IN SHERIDAN, GO NORTH ON STATE HIGHWAY 167 3.75 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 35.30 METERS OF THE CENTERLINE OF THE HIGHWAY, NORTH OF THE CENTERLINE OF A GRAVEL TAR ROAD 7.0 METERS AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270015 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	94	8.80	28.9
MK # 2	NORTH END OF PIPE GATE	289	36.90	121.1
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> LROC, DQUA <b>Ref Mon # 2</b> CSAL <b>Ref Mon # 3</b> 270006,270006A	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270016	<b>Date Monumented</b> 10/6/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 020275
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	575,526.1990		
<b>Easting (M)</b>	360,306.3790		
<b>Elevation (M)*</b>	85.592		
<b>Northing (SFT)</b>	1,888,205.5379		
<b>Easting (SFT)</b>	1,182,105.1784		
<b>Elevation (SFT)*</b>	280.812		

  

<b>Convergence Angle</b>	0	14	28.3103506
<b>Scale Factor</b>	0.999925423		
<b>Elevation Adjust. Factor</b>	0.9999865680		
<b>Combined Adjust. Factor</b>	0.9999119920		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 270005, 270014	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
<b>Ref Mon # 2</b> 270012, 270012A	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270016A	<b>Date Monumented</b> 10/6/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 167	<b>Job Number:</b> 020275
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	575,897.3359	
<b>Easting (M)</b>	360,549.2660	
<b>Elevation (M)*</b>	87.609	
<b>Northing (SFT)</b>	1,889,423.1762	
<b>Easting (SFT)</b>	1,182,902.0502	
<b>Elevation (SFT)*</b>	287.432	

  

<b>Convergence Angle</b>	0	14	23.0311526
<b>Scale Factor</b>	0.999925643		
<b>Elevation Adjust. Factor</b>	0.9999862514		
<b>Combined Adjust. Factor</b>	0.9999118955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 46,270 and 167 in Sheridan go south on Hwy-167 for 0.45 miles to Grant county road 9 on the right. Turn right on county road 9 and go 4.10 miles to the station on the right. 5.80 meters West of the center of county road 9 and 0.50 meters East of a witness post. The station mark is a standard 64mm cap stamped "270016A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	270016
MK # 2					<b>Geodetic Azimuth</b>	212 57 46
MK # 3					<b>Grid Azimuth</b>	213 12 09

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	<p>3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, &amp; S5111.</p>
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270017	<b>Date Monumented</b> 10/6/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 46	<b>Job Number:</b> 020275, 020610
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	579,263.0479	
<b>Easting (M)</b>	359,995.1040	
<b>Elevation (M)*</b>	95.873	
<b>Northing (SFT)</b>	1,900,465.5163	
<b>Easting (SFT)</b>	1,181,083.9370	
<b>Elevation (SFT)*</b>	314.542	

  

<b>Convergence Angle</b>	0	14	35.4664597
<b>Scale Factor</b>	0.999927784		
<b>Elevation Adjust. Factor</b>	0.9999849547		
<b>Combined Adjust. Factor</b>	0.9999127398		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	gas meter	246	6.90	22.6
<b>MK # 2</b>	Power pole	030	17.10	56.1
<b>MK # 3</b>	Power pole w/guy	0	17.70	58.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270017A	<b>Date Monumented</b> 10/6/2005	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 46	<b>Job Number:</b> 020275
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	578,846.6419	
<b>Easting (M)</b>	359,652.3410	
<b>Elevation (M)*</b>	100.206	
<b>Northing (SFT)</b>	1,899,099.3576	
<b>Easting (SFT)</b>	1,179,959.3888	
<b>Elevation (SFT)*</b>	328.758	

  

<b>Convergence Angle</b>	0	14	42.9283822
<b>Scale Factor</b>	0.999927503		
<b>Elevation Adjust. Factor</b>	0.9999842747		
<b>Combined Adjust. Factor</b>	0.9999117789		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser	057	5.75	18.9
<b>MK # 2</b>	Power pole w/guy	332	25.40	83.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 270005, 270014	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
<b>Ref Mon # 2</b> 270012, 270012A	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270018	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020445,020717
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	582,111.0805	0.0030
<b>Easting (M)</b>	379,038.8828	0.0030
<b>Elevation (M)*</b>	97.039	

  

<b>Northing (SFT)</b>	1,909,809.4366	
<b>Easting (SFT)</b>	1,243,563.4013	
<b>Elevation (SFT)*</b>	318.369	

  

<b>Convergence Angle</b>	0	7	38.8533787
<b>Scale Factor</b>	0.999929862		
<b>Elevation Adjust. Factor</b>	0.9999847716		
<b>Combined Adjust. Factor</b>	0.9999146347		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	18	30.1846932
<b>Longitude</b>	92	13	39.8335800
<b>Ellipsoid Height:</b>	71.219		
<b>Grid Northing (Meters)</b>	582,111.0519		
<b>Grid Easting (Meters)</b>	379,038.8900		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	265	9.27	30.4
MK # 2	COMBINATION POLE	91	37.49	123.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARGS Ref Mon # 2    ARLR Ref Mon # 3    ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.         </td> </tr> </table>	Comments	3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.
Comments			
3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.			

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID 12B
<b>Latitude</b>	34 18 30.1856220
<b>Longitude</b>	92 13 39.8338644
<b>Ellipsoid Height (M):</b>	70.984 0.0200
<b>Geoid Height (M):</b>	-26.012

Location Description
TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 1.0 MILES TO THE STATION MARK ON THE LEFT, SOUTH 56.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

<b>AZ Mark Station</b>	270018A
<b>Geodetic Azimuth</b>	93 24 39
<b>Grid Azimuth</b>	93 32 18

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270018A	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020445,020717
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	582,084.1440	0.0030	
<b>Easting (M)</b>	379,474.2069	0.0030	
<b>Elevation (M)*</b>	90.203		
<b>Northing (SFT)</b>	1,909,721.0624		
<b>Easting (SFT)</b>	1,244,991.6271		
<b>Elevation (SFT)*</b>	295.942		

  

<b>Convergence Angle</b>	0	7	29.3225788
<b>Scale Factor</b>	0.999929843		
<b>Elevation Adjust. Factor</b>	0.9999858444		
<b>Combined Adjust. Factor</b>	0.9999156884		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	18	29.3421240
<b>Longitude</b>	92	13	22.8044244
<b>Ellipsoid Height:</b>	64.396		
<b>Grid Northing (Meters)</b>	582,084.1329		
<b>Grid Easting (Meters)</b>	379,474.2260		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	220	7.62	25.0
<b>MK # 2</b>	COMBINATION POLE WITH LIGHT	110	15.09	49.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCLR <b>Ref Mon # 2</b> CSAL <b>Ref Mon # 3</b> K 124	3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRING ELEVATION ON NGS BM A-81.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID 12B
<b>Latitude</b>	34    18    29.3424840
<b>Longitude</b>	92    13    22.8051732
<b>Ellipsoid Height (M):</b>	64.158    0.0200
<b>Geoid Height (M):</b>	-26.013

  

Location Description
TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 0.70 MILES TO THE STATION MARK ON THE LEFT, SOUTH 39.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 26.1 FEET OF THE CENTERLINE OF DAVIS DRIVE, NORTH 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270019	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 020318,020344
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	587,588.2049	
<b>Easting (M)</b>	364,353.9950	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,927,778.9689	
<b>Easting (SFT)</b>	1,195,384.7319	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	0.7671561
<b>Scale Factor</b>	0.999934303		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gate post	204	34.90	114.5
<b>MK # 2</b>	Northwest corner of a powerline tower	157	33.62	110.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM ARLR DQUA	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    21    26.5158972
<b>Longitude</b>	92    23    14.9975844
<b>Ellipsoid Height (M):</b>	67.769
<b>Geoid Height (M):</b>	-25.958

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 3.20 miles to the station on the right. 123 ft. north of a paved drive, 56.80 feet east of the center of hwy-167 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270019 2008" set on top of a 4 foot by 5/8 inch rebar and is 0.20 feet below the surface. This is a replacement for GPS station 270015A which was destroyed.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270020	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 020318
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	592,094.9509	
<b>Easting (M)</b>	365,615.3600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,942,564.8514	
<b>Easting (SFT)</b>	1,199,523.0603	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	33.4998809
<b>Scale Factor</b>	0.999938545		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM ARLR DQUA	
<b>Ref Mon # 2</b> 620016 270015	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 23 52.9344348
<b>Longitude</b>	92 22 26.2791120
<b>Ellipsoid Height (M):</b>	65.691
<b>Geoid Height (M):</b>	-25.972

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 6.0 miles to the station on the right. 50.0 feet east of the east edge of the asphalt and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270020 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>

<b>AZ Mark Station</b>	270020A
<b>Geodetic Azimuth</b>	194 06 49
<b>Grid Azimuth</b>	194 19 22

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270020A	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 020318
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	591,424.0998				
<b>Easting (M)</b>	365,444.0780				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,940,363.9008				
<b>Easting (SFT)</b>	1,198,961.1126				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	12	37.1993293
<b>Scale Factor</b>	0.999937882		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	295	3.84	12.6
<b>MK # 2</b>	North gate post	240	3.50	11.5
<b>MK # 3</b>	Gas meter	273	10.58	34.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM ARLR DQUA <b>Ref Mon # 2</b> 620016 270015 <b>Ref Mon # 3</b>	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 23 31.1417268
<b>Longitude</b>	92 22 32.8889208
<b>Ellipsoid Height (M):</b>	61.249
<b>Geoid Height (M):</b>	-25.968

Location Description
To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 5.50 miles to the station on the left. 40.0 feet west of the west edge of the asphalt, 14.0 north of the center of a paved drive and 7.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "270020A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270021	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 020318
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	596,011.5049	
<b>Easting (M)</b>	367,170.9590	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,955,414.4123	
<b>Easting (SFT)</b>	1,204,626.7213	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	59.7104705
<b>Scale Factor</b>	0.999942643		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North gate post	140	1.04	3.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM ARLR DQUA	
<b>Ref Mon # 2</b> 620016 270015	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 26 0.2250996
<b>Longitude</b>	92 21 25.9075332
<b>Ellipsoid Height (M):</b>	54.863
<b>Geoid Height (M):</b>	-25.999

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.60 miles to the station on the right. 43.4 feet east of the east edge of the asphalt, 11.0 feet north of the center of a paved drive and 3.40 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270021A	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 020318
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	596,601.4729	
<b>Easting (M)</b>	367,319.6480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,957,349.9990	
<b>Easting (SFT)</b>	1,205,114.5451	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	56.4957191
<b>Scale Factor</b>	0.999943293		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden fence post	5	9.60	31.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM ARLR DQUA <b>Ref Mon # 2</b> 620016 270015 <b>Ref Mon # 3</b>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 26 19.3889976
<b>Longitude</b>	92 21 20.1637332
<b>Ellipsoid Height (M):</b>	55.701
<b>Geoid Height (M):</b>	-26.006

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.90 miles to the station on the left. 54.5 feet west of the of the west edge of the asphalt and 4.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270022	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> n/a	<b>Job Number:</b> 020318,001847
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,526.6339	
<b>Easting (M)</b>	368,496.1090	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,970,227.7981	
<b>Easting (SFT)</b>	1,208,974.3176	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	30.9910544
<b>Scale Factor</b>	0.999947837		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.30 miles to the station on the right at the top of a hill. 23.0 feet south of the center of the gravel road and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "270022 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	None				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARCM ARLR DQUA</p> <p><b>Ref Mon # 2</b>    620016 270015</p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270022A	<b>Date Monumented</b> 7/22/2008	<b>Monumented By</b> AHTD	<b>County</b> Grant	<b>Route</b> n/a	<b>Job Number:</b> 020318,001847
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,541.4539	
<b>Easting (M)</b>	368,126.5150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,970,276.4200	
<b>Easting (SFT)</b>	1,207,761.7413	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	39.0985889
<b>Scale Factor</b>	0.999947854		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.10 miles to the station on the left. 20.0 feet north of the center of the gravel road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "270022A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM ARLR DQUA</p> <p>Ref Mon # 2    620016 270015</p> <p>Ref Mon # 3    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270023	<b>Date Monumented</b> 6/10/2014	<b>Monumented By</b> AHTD	<b>County</b> GRANT	<b>Route</b> 229	<b>Job Number:</b> 020562
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	583,897.4808	0.0020	
<b>Easting (M)</b>	341,098.6110	0.0020	
<b>Elevation (M)*</b>	70.692		
<b>Northing (SFT)</b>	1,915,670.3183		
<b>Easting (SFT)</b>	1,119,087.6929		
<b>Elevation (SFT)*</b>	231.929		

  

<b>Convergence Angle</b>	0	21	29.6220421
<b>Scale Factor</b>	0.999931114		
<b>Elevation Adjust. Factor</b>	0.9999889062		
<b>Combined Adjust. Factor</b>	0.9999200210		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	93	18.40	60.4
<b>MK # 2</b>	TELEPHONE POLE	122	24.10	79.1
<b>MK # 3</b>	COMBINATION POLE	203	14.00	45.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 81 BY CREW S5102 IN JUNE 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 81 BY CREW S5102 IN JUNE 2014.
Comments			
ELEV EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 81 BY CREW S5102 IN JUNE 2014.			

  

Location Description	
TO REACH FROM THE INTERSECTION OF HWY. 229 AND HWY. 270 IN POYEN. GO SOUTH ON HWY. 229 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 20 FT. NORTH OF THE CENTER OF W. 4TH ST., AND 75 FT. EAST OF CENTER GRAVEL DRIVEWAY TO GRAVEL PARKING LOT. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "270023 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	A 81
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270024	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	583,131.5652	0.0020	
<b>Easting (M)</b>	350,938.3081	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,913,157.4768		
<b>Easting (SFT)</b>	1,151,370.0992		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	17	54.1028236
<b>Scale Factor</b>	0.999930560		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
Starting at the Intersection of Hwy 270 and Hwy 190 south, East of Prattsville AR., Go East along Hwy 270			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FIELD FENCE	153	2.50	8.2
MK # 2	WOOD UTILITY MARKER POST	260	28.00	91.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">                     Static elevation constraining ngs bm A-81                 </td> </tr> </table>	Comments	Static elevation constraining ngs bm A-81
Ref Mon # 1	ARGS								
Ref Mon # 2	ARLR								
Ref Mon # 3	ARPB								
Comments									
Static elevation constraining ngs bm A-81									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270024A	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
---------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	582,789.1479	0.0020			
<b>Easting (M)</b>	350,708.3672	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,912,034.0627				
<b>Easting (SFT)</b>	1,150,615.7014				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	17	59.0975861
<b>Scale Factor</b>	0.999930296		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
From the Intersection of HWY 270 and HWY 190 south, East of Prattsville, AR, Go East 0.2 miles along			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FIELD FENCE	290	1.80	5.9
MK # 2	NE END OF 24" CMP CUS	47	33.30	109.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB	<b>Comments</b> Static elevation constraining ngs bm A-81
Ref Mon # 1	ARGS						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARPB						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270025	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 583,129.0999	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID 12B
<b>Easting (M)</b> 355,260.2309	<b>0.0020</b>	<b>Latitude</b> 34 19 0.5351988
<b>Elevation (M)*</b>		<b>Longitude</b> 92 29 10.0463172
<b>Northing (SFT)</b> 1,913,149.3886		<b>Ellipsoid Height (M):</b> 62.349 0.0130
<b>Easting (SFT)</b> 1,165,549.6075		<b>Geoid Height (M):</b> -26.127
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	<b>0</b>	<b>16</b>	<b>19.4846253</b>
<b>Scale Factor</b>	<b>0.999930575</b>		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>			
From the intersection of Hwy 270 and Hwy 190 South, East of Prattsville, AR., go East along			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CL FORESTRY RD 9420	90		28.65	94.0
MK # 2	EAST END OF CMP CUS	84		22.00	72.2
MK # 3	CL HWY 270	195		8.41	27.6

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARGS Ref Mon # 2    ARLR Ref Mon # 3    ARPB	<b>Comments</b> Static elevation constraining ngs bm A-81
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270025A	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
---------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 583,111.5643	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID 12B
<b>Easting (M)</b> 355,710.3706	<b>0.0020</b>	<b>Latitude</b> 34 19 0.0351012
<b>Elevation (M)*</b>		<b>Longitude</b> 92 28 52.4356320
<b>Northing (SFT)</b> 1,913,091.8572		<b>Ellipsoid Height (M):</b> 53.374 0.0130
<b>Easting (SFT)</b> 1,167,026.4409		<b>Geoid Height (M):</b> -261,229.000
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 16 9.6280888		<b>Location Description</b>  From the intersection of Hwy 270 and Hwy 190 South, East of Prattsville, AR., go East along
<b>Scale Factor</b> 0.999930563		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL HWY 270	196	7.90	25.9
<b>MK # 2</b>	ARDOT GPS WITNESS POST	15	4.90	16.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS	Static elevation constraining ngs bm A-81
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270026	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	582,769.9673	0.0020	
<b>Easting (M)</b>	375,574.9647	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,911,971.1344		
<b>Easting (SFT)</b>	1,232,198.8634		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	8	54.7180231
<b>Scale Factor</b>	0.999930355		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
From the Grant/Jefferson county line on Hwy 270, travel West on Hwy 270 for 3.0 miles. The station is on			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	TB 96-5	280	6.75	22.1	
<b>MK # 2</b>	5 BARB FE	198	1.65	5.4	
<b>MK # 3</b>	S END OF SIGN (CLARK'S CHRISTMAS TREE	127	5.50	18.0	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARGS <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARPB	<b>Comments</b> Static elevation constraining ngs bm A-81
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270026A	<b>Date Monumented</b> 7/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
---------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	582,632.7690	0.0020	
<b>Easting (M)</b>	376,079.8282	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,911,521.0096		
<b>Easting (SFT)</b>	1,233,855.2364		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	8	43.6578660
<b>Scale Factor</b>	0.999930252		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE CNR OF TAN, 1 S-F HOME	49	43.80	143.7
MK # 2	CP	104	30.00	98.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARGS	Static elevation constraining ngs bm A-81
Ref Mon # 2: ARLR	
Ref Mon # 3: ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270027	<b>Date Monumented</b> 7/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	583,461.8997	0.0040			
<b>Easting (M)</b>	370,245.5639	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,914,241.2493				
<b>Easting (SFT)</b>	1,214,713.9876				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	10	51.4375233
<b>Scale Factor</b>	0.999930880		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CP	217	20.88	68.5
<b>MK # 2</b>	WATER MARKER	178	11.00	36.1
<b>MK # 3</b>	GAS MARKER	191	11.60	38.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input type="text" value="ARGS"/> <b>Ref Mon # 2</b> <input type="text" value="ARLR"/> <b>Ref Mon # 3</b> <input type="text" value="ARPB"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    34    19    13.2591648

**Longitude**    92    19    23.9241792

**Ellipsoid Height (M):**    59.392    0.0240

**Geoid Height (M):**    -26.031    0.0240

  

**Location Description**

TO REACH THE STATION MARK FROM THE JCT OF US-270 & SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.6 MILES TO STATION ON RIGHT. 22.2' SOUTH OF C/L US-270. 38.5' EAST OF C/L CR-270041. THE MARK IS A STANDARD 2½" CAP STAMPED "270027 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 270027A	<b>Date Monumented</b> 7/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> GRANT	<b>Route</b> 270	<b>Job Number:</b> 020717
---------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	583,491.6160	0.0040	
<b>Easting (M)</b>	370,760.8952	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,914,338.7435		
<b>Easting (SFT)</b>	1,216,404.7037		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	10	40.1570564
<b>Scale Factor</b>	0.999930904		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	201	28.66	94.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARGS"/>	
Ref Mon # 2 <input type="text" value="ARLR"/>	
Ref Mon # 3 <input type="text" value="ARPB"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 19 14.2759884
<b>Longitude</b>	92 19 3.7693560
<b>Ellipsoid Height (M):</b>	52.113 0.0240
<b>Geoid Height (M):</b>	-26.029 0.0240

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF US-270 &amp; SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.9 MILES TO STATION ON LEFT. 29.7' NORTH OF C/L US-270. THE MARK IS A STANDARD 2½" CAP STAMPED "270027A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280001	<b>Date Monumented</b> 5/1/1990	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> R00094
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	182,554.7480	
<b>Easting (M)</b>	530,264.8630	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	598,931.7024	
<b>Easting (SFT)</b>	1,739,710.6380	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	50	25.6320155
<b>Scale Factor</b>	0.999958563		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 6" PINE	14	16.69	54.8
<b>MK # 2</b>	NBC IN 4" PINE	295	11.33	37.2
<b>MK # 3</b>	NBC IN POWER POLE	225	14.97	49.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FIRST	Old point number 90280001
<b>Ref Mon # 2</b> BOWMAN	
<b>Ref Mon # 3</b> NETTLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280002	<b>Date Monumented</b> 5/1/1990	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> R00094,100445
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 192,633.5489		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 534,728.2370		<b>Latitude</b> 36 3 37.5392124
<b>Elevation (M)*</b> 		<b>Longitude</b> 90 30 16.1778276
<b>Northing (SFT)</b> 631,998.5683		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,754,354.2242		<b>Geoid Height (M):</b> -28.930
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 52 12.8414276	<b>Scale Factor</b> 0.999970391
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DRILL POINT IN TOP OF R/W MARKER	5	11.58	38.0
MK # 2	DRILL POINT IN LIGHT POLE BASE	195	21.76	71.4
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FIRST	Old point number 90280002
<b>Ref Mon # 2</b> BOWMAN	
<b>Ref Mon # 3</b> NETTLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280003	<b>Date Monumented</b> 12/6/1999	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 139	<b>Job Number:</b> 100566
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,901.6019	
<b>Easting (M)</b>	548,142.3320	
<b>Elevation (M)*</b>	76.103	
<b>Northing (SFT)</b>	629,597.1722	
<b>Easting (SFT)</b>	1,798,363.6342	
<b>Elevation (SFT)*</b>	249.680	

  

<b>Convergence Angle</b>	0	57	24.4203944
<b>Scale Factor</b>	0.999969168		
<b>Elevation Adjust. Factor</b>	0.9999880571		
<b>Combined Adjust. Factor</b>	0.9999572255		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO NORTH ON STATE HIGHWAY 139 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.95 METERS WEST OF THE CENTER OF STATE HIGHWAY 139, 3.65 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003 1999" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> KENNPORT <b>Ref Mon # 3</b> MANIPORT	ELEV BY 3-WIRE FROM NGS PARAGOULD   

  

<b>AZ Mark Station</b>	280003A
<b>Geodetic Azimuth</b>	19 55 27.363342
<b>Grid Azimuth</b>	18 58 02.970403

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280003A	<b>Date Monumented</b> 12/6/1999	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 139	<b>Job Number:</b> 100566
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,475.5150	
<b>Easting (M)</b>	548,339.5820	
<b>Elevation (M)*</b>	76.147	
<b>Northing (SFT)</b>	631,480.0855	
<b>Easting (SFT)</b>	1,799,010.7786	
<b>Elevation (SFT)*</b>	249.824	

  

<b>Convergence Angle</b>	0	57	29.2288703
<b>Scale Factor</b>	0.999969903		
<b>Elevation Adjust. Factor</b>	0.9999880503		
<b>Combined Adjust. Factor</b>	0.9999579536		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LEVEE MILE MARKED 38	389	0.70	2.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>AHTD PAR 1</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>KENNPOR</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>MANIPOR</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	AHTD PAR 1	<b>Ref Mon # 2</b>	KENNPOR	<b>Ref Mon # 3</b>	MANIPOR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3-WIRE FROM NGS PARAGOULD</td> </tr> </table>	Comments	ELEV BY 3-WIRE FROM NGS PARAGOULD
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	AHTD PAR 1										
<b>Ref Mon # 2</b>	KENNPOR										
<b>Ref Mon # 3</b>	MANIPOR										
Comments											
ELEV BY 3-WIRE FROM NGS PARAGOULD											

  

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 25.3665036
Longitude	90 21 12.4625556
Ellipsoid Height (M):	47.865
Geoid Height (M):	-28.187

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO NORTH ON STATE HIGHWAY 139 FOR 0.76 KM (0.47 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 139 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280004	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,312.0539	
<b>Easting (M)</b>	519,174.2540	
<b>Elevation (M)*</b>	85.277	
<b>Northing (SFT)</b>	634,224.6302	
<b>Easting (SFT)</b>	1,703,324.1983	
<b>Elevation (SFT)*</b>	279.780	

  

<b>Convergence Angle</b>	0	46	11.4223390
<b>Scale Factor</b>	0.999971578		
<b>Elevation Adjust. Factor</b>	0.9999866174		
<b>Combined Adjust. Factor</b>	0.9999581958		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER FENCE POST	187	2.10	6.9
<b>MK # 2</b>	GATE POST	101	11.62	38.1
<b>MK # 3</b>	EAST END OF CMP	273	5.85	19.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> P 315	Elevation based on 3-wire from NGS Pt. K 251
<b>Ref Mon # 2</b> POCAPORT	
<b>Ref Mon # 3</b> AHTD PAR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280004A	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,376.6459	
<b>Easting (M)</b>	519,539.7860	
<b>Elevation (M)*</b>	86.830	
<b>Northing (SFT)</b>	634,436.5458	
<b>Easting (SFT)</b>	1,704,523.4479	
<b>Elevation (SFT)*</b>	284.875	

  

<b>Convergence Angle</b>	0	46	19.9420762
<b>Scale Factor</b>	0.999971657		
<b>Elevation Adjust. Factor</b>	0.9999863737		
<b>Combined Adjust. Factor</b>	0.9999580311		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	81	22.90	75.1
MK # 2	NONE			
MK # 3	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>P 315</td> </tr> <tr> <td>Ref Mon # 2</td> <td>POCAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD PAR 1</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	P 315	Ref Mon # 2	POCAPORT	Ref Mon # 3	AHTD PAR 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on 3-wire from NGS Pt. K 251</td> </tr> </table>	Comments	Elevation based on 3-wire from NGS Pt. K 251
Area Reference Monuments (used for Processing)											
Ref Mon # 1	P 315										
Ref Mon # 2	POCAPORT										
Ref Mon # 3	AHTD PAR 1										
Comments											
Elevation based on 3-wire from NGS Pt. K 251											

  

Location Description	
<p>THE STATION IS LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141. THE STATION IS 44.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 141, 11.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 371.211 METERS.</p>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 8.7094380
<b>Longitude</b>	90 40 22.6392132
<b>Ellipsoid Height (M):</b>	58.688
<b>Geoid Height (M):</b>	-28.027

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280005	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,941.5739	
<b>Easting (M)</b>	525,112.7580	
<b>Elevation (M)*</b>	132.015	
<b>Northing (SFT)</b>	636,289.9804	
<b>Easting (SFT)</b>	1,722,807.4402	
<b>Elevation (SFT)*</b>	433.119	

  

<b>Convergence Angle</b>	0	48	29.7121146
<b>Scale Factor</b>	0.999972309		
<b>Elevation Adjust. Factor</b>	0.9999792830		
<b>Combined Adjust. Factor</b>	0.9999515925		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF CMP	275	22.80	74.8
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	287	23.00	75.5
<b>MK # 3</b>	GUY POLE	322	20.50	67.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> P 315	Elevation based on 3-wire from NGS Pt. K 251
<b>Ref Mon # 2</b> POCAPORT	
<b>Ref Mon # 3</b> AHTD PAR 1	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 24.5430120
<b>Longitude</b>	90 36 39.6279864
<b>Ellipsoid Height (M):</b>	103.895
<b>Geoid Height (M):</b>	-28.073

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 5.55 KM (3.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 683.060 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280005A	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,987.5859	
<b>Easting (M)</b>	524,431.2860	
<b>Elevation (M)*</b>	134.346	
<b>Northing (SFT)</b>	636,440.9381	
<b>Easting (SFT)</b>	1,720,571.6442	
<b>Elevation (SFT)*</b>	440.767	

  

<b>Convergence Angle</b>	0	48	13.8804101
<b>Scale Factor</b>	0.999972383		
<b>Elevation Adjust. Factor</b>	0.9999789172		
<b>Combined Adjust. Factor</b>	0.9999513008		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	301	16.40	53.8
<b>MK # 2</b>	POWER POLE	266	32.15	105.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> P 315	Elevation based on 3-wire from NGS Pt. K 251
<b>Ref Mon # 2</b> POCAPORT	
<b>Ref Mon # 3</b> AHTD PAR 1	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 26.3467632
<b>Longitude</b>	90 37 6.8349432
<b>Ellipsoid Height (M):</b>	106.071
<b>Geoid Height (M):</b>	-28.069

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 683.060 METERS.</p>

<b>AZ Mark Station</b>	280005
<b>Geodetic Azimuth</b>	94 39 59.338058
<b>Grid Azimuth</b>	93 51 45.551888

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280006	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496,100445,10786_9
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,095.4239	
<b>Easting (M)</b>	529,924.1990	
<b>Elevation (M)*</b>	115.137	
<b>Northing (SFT)</b>	633,513.9032	
<b>Easting (SFT)</b>	1,738,592.9762	
<b>Elevation (SFT)*</b>	377.744	

  

<b>Convergence Angle</b>	0	50	21.3065042
<b>Scale Factor</b>	0.999971091		
<b>Elevation Adjust. Factor</b>	0.9999819316		
<b>Combined Adjust. Factor</b>	0.9999530232		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MAN HOLE COVER	318	29.95	98.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> P 315	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.
<b>Ref Mon # 2</b> POCAPORT	
<b>Ref Mon # 3</b> AHTD PAR 1	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 54.8482428
<b>Longitude</b>	90 33 27.8518104
<b>Ellipsoid Height (M):</b>	87.008
<b>Geoid Height (M):</b>	-28.092

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND U. S. HIGHWAY 49, LOCATED IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 5.15 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.70 METERS EAST OF THE NORTHEAST CORNER OF A CHURCH, 14.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 412, 5.81 METERS SOUTHWEST OF THE BACK OF CURB AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 567.287 METERS.</p>

<b>AZ Mark Station</b>	280006A
<b>Geodetic Azimuth</b>	123 55 55.37362
<b>Grid Azimuth</b>	123 05 34.13100

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280006A	<b>Date Monumented</b> 3/13/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100496,100445,10786_9
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,785.7009	
<b>Easting (M)</b>	530,399.4450	
<b>Elevation (M)*</b>	111.194	
<b>Northing (SFT)</b>	632,497.7537	
<b>Easting (SFT)</b>	1,740,152.1791	
<b>Elevation (SFT)*</b>	364.809	

  

<b>Convergence Angle</b>	0	50	32.2505918
<b>Scale Factor</b>	0.999970675		
<b>Elevation Adjust. Factor</b>	0.9999825504		
<b>Combined Adjust. Factor</b>	0.9999532259		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND U.S. HIGHWAY 49, LOCATED IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 4.61 METERS NORTHEAST OF THE NORTHEAST EDGE OF CONCRETE SIDEWALK, 4.10 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A PAVED PARKING LOT AND 0.84 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 567.287 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	296	10.90	35.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    P 315</p> <p><b>Ref Mon # 2</b>    POCAPORT</p> <p><b>Ref Mon # 3</b>    AHTD PAR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280007	<b>Date Monumented</b> 12/17/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> N/A	<b>Job Number:</b> 100433
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,384.3659	
<b>Easting (M)</b>	515,440.0270	
<b>Elevation (M)*</b>	114.114	
<b>Northing (SFT)</b>	598,372.7071	
<b>Easting (SFT)</b>	1,691,072.8219	
<b>Elevation (SFT)*</b>	374.389	

  

<b>Convergence Angle</b>	0	44	41.2887989
<b>Scale Factor</b>	0.999958599		
<b>Elevation Adjust. Factor</b>	0.9999820921		
<b>Combined Adjust. Factor</b>	0.9999406919		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. GO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO THE STATION ON THE RIGHT. THE STATION IS 3.20 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AHTD HAR1, AHTD PAR1 Ref Mon # 2    480016 and BUTLER Ref Mon # 3    MEM2 CORS	<b>Comments</b> ELEVATION BY 3 WIRE FROM 160019A
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280007A	<b>Date Monumented</b> 12/17/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> N/A	<b>Job Number:</b> 100433
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	182,376.5429				
<b>Easting (M)</b>	514,862.8170				
<b>Elevation (M)*</b>	114.341				
<b>Northing (SFT)</b>	598,347.0412				
<b>Easting (SFT)</b>	1,689,179.0921				
<b>Elevation (SFT)*</b>	375.132				

  

<b>Convergence Angle</b>	0	44	27.8812753
<b>Scale Factor</b>	0.999958599		
<b>Elevation Adjust. Factor</b>	0.9999820566		
<b>Combined Adjust. Factor</b>	0.9999406563		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. GO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO STATION 280007 ON THE RIGHT, CONTINUE ON WEST 0.30 MILES ON TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 3.05 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HAR1, AHTD PAR1</p> <p>Ref Mon # 2    480016 and BUTLER</p> <p>Ref Mon # 3    MEM2 CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM 160019A</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280008	<b>Date Monumented</b> 12/19/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> N/A	<b>Job Number:</b> 100568,101000
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	184,535.3209	
<b>Easting (M)</b>	536,447.3090	
<b>Elevation (M)*</b>	76.486	
<b>Northing (SFT)</b>	605,429.6320	
<b>Easting (SFT)</b>	1,759,994.2129	
<b>Elevation (SFT)*</b>	250.938	

  

<b>Convergence Angle</b>	0	52	49.9150921
<b>Scale Factor</b>	0.999960603		
<b>Elevation Adjust. Factor</b>	0.9999879970		
<b>Combined Adjust. Factor</b>	0.9999486004		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE PEDESTAL	109	9.10	29.9
<b>MK # 2</b>	GUY POLE	144	21.00	68.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR 1	ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187
<b>Ref Mon # 2</b> 480016 and BUTLER	
<b>Ref Mon # 3</b> MEM2 CORS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 13.9674120
<b>Longitude</b>	90 29 12.4663308
<b>Ellipsoid Height (M):</b>	48.391
<b>Geoid Height (M):</b>	-28.059

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.9 MILES TO COUNTY ROAD 914 (GRAVEL) AND TURN RIGHT (EAST) AND GO 0.1 MILES TO THE STATION ON THE LEFT. 5.60 METERS NORTH OF THE CENTER OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	280008A
<b>Geodetic Azimuth</b>	270 42 34
<b>Grid Azimuth</b>	269 49 44

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280008A	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 69	<b>Job Number:</b> 100568,101000
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 184,533.3510		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 535,787.7780		<b>Latitude</b> 35 59 14.2315584
<b>Elevation (M)*</b> 79.220		<b>Longitude</b> 90 29 38.7945888
<b>Northing (SFT)</b> 605,423.1691		<b>Ellipsoid Height (M):</b> 51.146
<b>Easting (SFT)</b> 1,757,830.4017		<b>Geoid Height (M):</b> -28.052
<b>Elevation (SFT)*</b> 259.909		

  

<b>Convergence Angle</b> 0 52 34.5947017	<b>Location Description</b>  TO REACH FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.5 MILES TO THE STATION ON THE LEFT. 8.15 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999960612	
<b>Elevation Adjust. Factor</b> 0.9999875679	
<b>Combined Adjust. Factor</b> 0.9999481804	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	EAST END OF A 24" CMP	80	8.45	27.7	280008
MK # 2					90 42 18
MK # 3					89 49 44

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187
Ref Mon # 2 480016 and BUTLER	
Ref Mon # 3 MEM2 CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280009	<b>Date Monumented</b> 12/19/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100564,100445
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,475.9030	
<b>Easting (M)</b>	533,796.7280	
<b>Elevation (M)*</b>	89.142	
<b>Northing (SFT)</b>	631,481.3584	
<b>Easting (SFT)</b>	1,751,298.0984	
<b>Elevation (SFT)*</b>	292.459	

  

<b>Convergence Angle</b>	0	51	51.1290176
<b>Scale Factor</b>	0.999970204		
<b>Elevation Adjust. Factor</b>	0.9999860110		
<b>Combined Adjust. Factor</b>	0.9999562154		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-412 AND HWY-49B IN PARAGOULD. GO WEST ON HWY-412 FOR 0.20MI. TO THE STATION ON THE RIGHT NEAR THE EDGE OF A BURGER KING PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280009 2002" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	116	14.00	45.9
MK # 2	LIGHT POLE	250	13.70	44.9
MK # 3	COMBINATION POLE	281	16.00	52.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD PAR1 <b>Ref Mon # 2</b> BUTLER <b>Ref Mon # 3</b> 480016 ( Brinkley shop )	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280010	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100566,100445
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,855.6250	
<b>Easting (M)</b>	539,414.4480	
<b>Elevation (M)*</b>	79.681	
<b>Northing (SFT)</b>	629,446.3297	
<b>Easting (SFT)</b>	1,769,728.9015	
<b>Elevation (SFT)*</b>	261.420	

  

<b>Convergence Angle</b>	0	54	1.5081989
<b>Scale Factor</b>	0.999969290		
<b>Elevation Adjust. Factor</b>	0.9999874956		
<b>Combined Adjust. Factor</b>	0.9999567860		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF A MANHOLE	163	7.00	23.0
<b>MK # 2</b>	30" CMP	31	14.90	48.9
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 280003, 280003A	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark L 187.
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2 CORS	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 9.9531360
<b>Longitude</b>	90 27 9.4327956
<b>Ellipsoid Height (M):</b>	51.556
<b>Geoid Height (M):</b>	-28.135

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND HIGHWAY 135 SOUTH, EAST OF PARAGOULD, GO WEST ON 412 2.9 MILES TO THE STATION ON THE RIGHT. 15.10 METERS NORTH OF THE CENTER OF THE ROAD, 12.7 METERS WEST OF A CONC DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280010 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	280010A
<b>Geodetic Azimuth</b>	92 49 38
<b>Grid Azimuth</b>	91 55 37

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280010A	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100566
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	191,829.8899		
<b>Easting (M)</b>	540,179.4100		
<b>Elevation (M)*</b>	78.984		
<b>Northing (SFT)</b>	629,361.8971		
<b>Easting (SFT)</b>	1,772,238.6143		
<b>Elevation (SFT)*</b>	259.133		

  

<b>Convergence Angle</b>	0	54	19.2818297
<b>Scale Factor</b>	0.999969242		
<b>Elevation Adjust. Factor</b>	0.9999876050		
<b>Combined Adjust. Factor</b>	0.9999568474		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	90	22.50	73.8
<b>MK # 2</b>	COMBINATION POLE	268	24.50	80.4
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 280003, 280003A	ELEV BY 3-WIRE FROM NGS PARAGOULD
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2 CORS	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 8.7271668
<b>Longitude</b>	90 26 38.8886172
<b>Ellipsoid Height (M):</b>	50.845
<b>Geoid Height (M):</b>	-28.139

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND HIGHWAY 135 SOUTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 0.20 MILES TO THE STATION ON THE LEFT. 22.5 METERS WEST OF A FENCE CORNER, 21.3 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280010A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280011	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100566
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,874.9059	
<b>Easting (M)</b>	544,533.0690	
<b>Elevation (M)*</b>	74.213	
<b>Northing (SFT)</b>	629,509.5871	
<b>Easting (SFT)</b>	1,786,522.2439	
<b>Elevation (SFT)*</b>	243.480	

  

<b>Convergence Angle</b>	0	56	0.5072440
<b>Scale Factor</b>	0.999969210		
<b>Elevation Adjust. Factor</b>	0.9999883537		
<b>Combined Adjust. Factor</b>	0.9999575641		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	72	6.40	21.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: 280003, 280003A	ELEV BY 3-WIRE FROM NGS PARAGOULD
Ref Mon # 2: AHTD PAR 1	
Ref Mon # 3: MEM 2 CORS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 7.9209324
<b>Longitude</b>	90 23 44.9316384
<b>Ellipsoid Height (M):</b>	46.049
<b>Geoid Height (M):</b>	-28.164

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND 139 NORTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 2.20 MILES TO THE STATION ON THE LEFT. 13.9 METERS WEST OF COUNTY ROAD 930, 23.7 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280011 2002" ON TOP OF A 1.22 METER IRON ROD AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	280011A
<b>Geodetic Azimuth</b>	271 05 43
<b>Grid Azimuth</b>	270 09 43

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280011A	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100566
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	191,876.8419				
<b>Easting (M)</b>	543,847.5070				
<b>Elevation (M)*</b>	75.149				
<b>Northing (SFT)</b>	629,515.9388				
<b>Easting (SFT)</b>	1,784,273.0292				
<b>Elevation (SFT)*</b>	246.551				

  

<b>Convergence Angle</b>	0	55	44.5709192
<b>Scale Factor</b>	0.999969227		
<b>Elevation Adjust. Factor</b>	0.9999882068		
<b>Combined Adjust. Factor</b>	0.9999574342		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND 139 NORTH, EAST OF PARAGOULD, GO WEST ON 412 2.6 MILES TO THE STATION ON THE LEFT. 7.9 METERS EAST OF A FIELD ROAD, 11.6 METERS SOUTH OF THE CENTER OF THE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280011A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A 24" CMP	220	6.00	19.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    280003, 280003A Ref Mon # 2    AHTD PAR 1 Ref Mon # 3    MEM 2 CORS	<b>Comments</b> ELEV BY 3-WIRE FROM NGS PARAGOULD
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280012	<b>Date Monumented</b> 1/2/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> 100445
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	187,811.1399	
<b>Easting (M)</b>	532,726.2940	
<b>Elevation (M)*</b>	90.169	
<b>Northing (SFT)</b>	616,177.0482	
<b>Easting (SFT)</b>	1,747,786.1829	
<b>Elevation (SFT)*</b>	295.828	

  

<b>Convergence Angle</b>	0	51	24.6203319
<b>Scale Factor</b>	0.999964420		
<b>Elevation Adjust. Factor</b>	0.9999858498		
<b>Combined Adjust. Factor</b>	0.9999502703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-69 SOUTH OF PARAGOULD, GO NORTH ON HWY-49 FOR 2.1MI. TO THE STATION ON THE LEFT. 22.1 METERS WEST OF THE CENTER OF HWY-49 AND 0.50 METERS EAST OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    280010, 280010A</p> <p><b>Ref Mon # 2</b>    AHTD PAR 1</p> <p><b>Ref Mon # 3</b>    MEM 2 CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280012A	<b>Date Monumented</b> 1/2/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> 100445,101000
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	188,425.0329				
<b>Easting (M)</b>	533,038.8720				
<b>Elevation (M)*</b>	103.694				
<b>Northing (SFT)</b>	618,191.1288				
<b>Easting (SFT)</b>	1,748,811.6992				
<b>Elevation (SFT)*</b>	340.204				

  

<b>Convergence Angle</b>	0	51	32.0975629
<b>Scale Factor</b>	0.999965148		
<b>Elevation Adjust. Factor</b>	0.9999837272		
<b>Combined Adjust. Factor</b>	0.9999488758		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-69 JUST SOUTH OF PARAGOULD GO NORTH ON HWY-49 FOR 2.6MI. TO THE STATION ON THE RIGHT. 28.6 METERS EAST OF THE CENTER OF HWY-49, 10.1 METERS SOUTH OF AN ASPHALT DRIVEWAY AND 0.50 METERS WEST OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	8	27.10	88.9
<b>MK # 2</b>	Fire hydrant	18	30.40	99.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> 280010, 280010A <b>Ref Mon # 2</b> AHTD PAR 1 <b>Ref Mon # 3</b> MEM 2 CORS	<b>Comments</b> Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280013	<b>Date Monumented</b> 1/2/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> 100445,100632,100633
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	195,655.4088	
<b>Easting (M)</b>	536,967.5447	
<b>Elevation (M)*</b>	94.246	
<b>Northing (SFT)</b>	641,912.7870	
<b>Easting (SFT)</b>	1,761,701.0196	
<b>Elevation (SFT)*</b>	309.204	

  

<b>Convergence Angle</b>	0	53	5.9892047
<b>Scale Factor</b>	0.999974402		
<b>Elevation Adjust. Factor</b>	0.9999852100		
<b>Combined Adjust. Factor</b>	0.9999596124		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	5	14.4587220
<b>Longitude</b>	90	28	44.8436208
<b>Ellipsoid Height:</b>	66.103		
<b>Grid Northing (Meters)</b>	195,655.4039		
<b>Grid Easting (Meters)</b>	536,967.5240		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	22.00	72.2
MK # 2	GUY POLE	182	19.00	62.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 280010, 280010A	Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2 CORS	

  

<b>Location Description</b>
TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-135 NORTH OF PARAGOULD GO NORTH ON HWY-49 FOR 1.9MI. TO THE STATION ON THE RIGHT. 11.3 METERS WEST OF THE CENTER OF HWY-49 AND 0.50 METERS WEST OF A WITNESS POST.

  

<b>AZ Mark Station</b>	280013A
<b>Geodetic Azimuth</b>	49 45 28
<b>Grid Azimuth</b>	48 52 22

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280013A	<b>Date Monumented</b> 1/2/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 49	<b>Job Number:</b> 100445, 100632
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,124.7046	
<b>Easting (M)</b>	537,504.9975	
<b>Elevation (M)*</b>	85.875	
<b>Northing (SFT)</b>	643,452.4683	
<b>Easting (SFT)</b>	1,763,464.3126	
<b>Elevation (SFT)*</b>	281.740	

  

<b>Convergence Angle</b>	0	53	18.6581140
<b>Scale Factor</b>	0.999975040		
<b>Elevation Adjust. Factor</b>	0.9999865237		
<b>Combined Adjust. Factor</b>	0.9999615640		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-135, GO NORTH ON HWY-49 FOR 2.4MI. TO THE STATION ON THE LEFT. 15.2 METERS EAST OF THE CENTER OF HWY-49, 18.1 METERS SOUTH OF THE CENTER OF AN ASPHALT DRIVE AND 0.50 METERS EAST OF A WITNESS POST SET NEXT TO A WIRE FENCE.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	47	24.05	78.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    280010, 280010A Ref Mon # 2    AHTD PAR 1 Ref Mon # 3    MEM 2 CORS	<b>Comments</b>  Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280014	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 141	<b>Job Number:</b> 100570
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,540.0970	
<b>Easting (M)</b>	527,587.7150	
<b>Elevation (M)*</b>	95.044	
<b>Northing (SFT)</b>	687,466.1349	
<b>Easting (SFT)</b>	1,730,927.3616	
<b>Elevation (SFT)*</b>	311.824	

  

<b>Convergence Angle</b>	0	49	32.4911535
<b>Scale Factor</b>	0.999996187		
<b>Elevation Adjust. Factor</b>	0.9999850847		
<b>Combined Adjust. Factor</b>	0.9999812717		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-141 AND HWY-135 IN HOOKER, GO WEST ON HWY-141 FOR 2.90 MILES TO THE STATION ON THE RIGHT ACROSS THE ROAD FROM WHITE FRAME HOUSE. 8.90 METERS NORTH OF THE CENTER OF HWY-141 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVE FLUSH WITH THE GROUND. WEST OF HOOKER, NORTH SIDE OF HIGHWAY 141, ACROSS ROAD FROM WHITE FRAME HOUSE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			4.30	14.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: BUTLER Ref Mon # 2: AHTD PAR 1 Ref Mon # 3: BLOOMFIELD CORS	<b>Comments</b>  3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280014A	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 141	<b>Job Number:</b> 100570
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,396.6880	
<b>Easting (M)</b>	527,198.6960	
<b>Elevation (M)*</b>	93.764	
<b>Northing (SFT)</b>	686,995.6339	
<b>Easting (SFT)</b>	1,729,651.0551	
<b>Elevation (SFT)*</b>	307.624	

  

<b>Convergence Angle</b>	0	49	23.3811856
<b>Scale Factor</b>	0.999995949		
<b>Elevation Adjust. Factor</b>	0.9999852856		
<b>Combined Adjust. Factor</b>	0.9999812347		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-135 AND HWY-141 IN HOOKER, GO WEST ON HWY-141 FOR 3.10 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF HWY-141 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND. WEST OF HOOKER, NORTH SIDE OF HIGHWAY 141			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: BUTLER Ref Mon # 2: AHTD PAR 1 Ref Mon # 3: BLOOMFIELD CORS	<b>Comments</b>  3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280015	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 135	<b>Job Number:</b> 100570
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,181.3100	
<b>Easting (M)</b>	531,633.8150	
<b>Elevation (M)*</b>	88.639	
<b>Northing (SFT)</b>	692,850.6812	
<b>Easting (SFT)</b>	1,744,201.9414	
<b>Elevation (SFT)*</b>	290.808	

  

<b>Convergence Angle</b>	0	51	7.3105692
<b>Scale Factor</b>	0.999998951		
<b>Elevation Adjust. Factor</b>	0.9999860899		
<b>Combined Adjust. Factor</b>	0.9999850409		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 135 AND HIGHWAY 141, GO NORTH ON HIGHWAY 135 0.30 MILES TO THE STATION ON THE LEFT. 9.70 METERS WEST OF THE CENTER OF HWY-135 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> BUTLER</p> <p><b>Ref Mon # 2</b> AHTD PAR 1</p> <p><b>Ref Mon # 3</b> BLOOMFIELD CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280015A	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 135	<b>Job Number:</b> 100570
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,785.3850	
<b>Easting (M)</b>	531,665.3940	
<b>Elevation (M)*</b>	87.840	
<b>Northing (SFT)</b>	694,832.5506	
<b>Easting (SFT)</b>	1,744,305.5468	
<b>Elevation (SFT)*</b>	288.190	

  

<b>Convergence Angle</b>	0	51	8.2556800
<b>Scale Factor</b>	1.000000022		
<b>Elevation Adjust. Factor</b>	0.9999862152		
<b>Combined Adjust. Factor</b>	0.9999862372		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: BUTLER	3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.
Ref Mon # 2: AHTD PAR 1	
Ref Mon # 3: BLOOMFIELD CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280016	<b>Date Monumented</b> 1/20/2009	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> CR 628	<b>Job Number:</b> 100445
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	194,525.5469	
<b>Easting (M)</b>	528,563.4490	
<b>Elevation (M)*</b>	112.238	
<b>Northing (SFT)</b>	638,205.8985	
<b>Easting (SFT)</b>	1,734,128.5823	
<b>Elevation (SFT)*</b>	368.234	

  

<b>Convergence Angle</b>	0	49	50.1496415
<b>Scale Factor</b>	0.999973029		
<b>Elevation Adjust. Factor</b>	0.9999823865		
<b>Combined Adjust. Factor</b>	0.9999554160		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser box	50	20.27	66.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.
<b>Ref Mon # 2</b> 280012,280012A	
<b>Ref Mon # 3</b> 280006,280006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280016A	<b>Date Monumented</b> 1/20/2009	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> NA	<b>Job Number:</b> 100445
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	194,542.6049				
<b>Easting (M)</b>	529,104.5400				
<b>Elevation (M)*</b>	105.082				
<b>Northing (SFT)</b>	638,261.8629				
<b>Easting (SFT)</b>	1,735,903.8117				
<b>Elevation (SFT)*</b>	344.758				

  

<b>Convergence Angle</b>	0	50	2.7384254
<b>Scale Factor</b>	0.999973042		
<b>Elevation Adjust. Factor</b>	0.9999835094		
<b>Combined Adjust. Factor</b>	0.9999565519		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser box	298	2.07	6.8
<b>MK # 2</b>	Combination pole with guy	127	15.70	51.5
<b>MK # 3</b>	Northwest corner of house #5289	190	26.97	88.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.
<b>Ref Mon # 2</b> 280012,280012A	
<b>Ref Mon # 3</b> 280006,280006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280017	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 100BR1, 100722
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,861.1300	
<b>Easting (M)</b>	543,823.4240	
<b>Elevation (M)*</b>	86.382	
<b>Northing (SFT)</b>	678,676.8907	
<b>Easting (SFT)</b>	1,784,194.0169	
<b>Elevation (SFT)*</b>	283.404	

  

<b>Convergence Angle</b>	0	55	49.6684156
<b>Scale Factor</b>	0.999991236		
<b>Elevation Adjust. Factor</b>	0.9999864441		
<b>Combined Adjust. Factor</b>	0.9999776802		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 6.4 MILES TO THE STATION MARK ON THE LEFT, EAST 14.1 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 68.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	150	9.85	32.3
MK # 2	COMBINATION POLE WITH LIGHT	105	28.65	94.0
MK # 3	EAST END 20" CMP	177	10.55	34.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="MOWS"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="TN42"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="ARPG"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280017A	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 00BR1, 100722, 100878, 10063
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,825.2255	0.0010
<b>Easting (M)</b>	544,474.8630	0.0020
<b>Elevation (M)*</b>	85.357	

  

<b>Northing (SFT)</b>	678,559.0940	
<b>Easting (SFT)</b>	1,786,331.2797	
<b>Elevation (SFT)*</b>	280.043	

  

<b>Convergence Angle</b>	0	56	4.8241979
<b>Scale Factor</b>	0.999991159		
<b>Elevation Adjust. Factor</b>	0.9999866048		
<b>Combined Adjust. Factor</b>	0.9999777639		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAVD 88		
<b>Latitude</b>	36	11	12.9418080
<b>Longitude</b>	90	23	37.5129060
<b>Ellipsoid Height:</b>	57.049		
<b>Grid Northing (Meters)</b>	206,825.2260		
<b>Grid Easting (Meters)</b>	544,474.8630		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 6.8 MILES TO THE STATION MARK ON THE RIGHT., EAST 7.7 FEET OF THE CENTERLINE OF A ASPHALT FIELD ROAD, SOUTH 32.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF CMP	30	2.13	7.0
<b>MK # 2</b>	WEST END OF CMP	291	6.58	21.6
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	280017
<b>Geodetic Azimuth</b>	274 05 18
<b>Grid Azimuth</b>	273 09 13

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MOWS	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722. Position superceded by cres S5113 in August 2016, during job 100870.
<b>Ref Mon # 2</b> TN42	
<b>Ref Mon # 3</b> ARPG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280018	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 100BR1, 100722
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,842.6979	
<b>Easting (M)</b>	539,687.2510	
<b>Elevation (M)*</b>	105.881	
<b>Northing (SFT)</b>	678,616.4180	
<b>Easting (SFT)</b>	1,770,623.9227	
<b>Elevation (SFT)*</b>	347.376	

  

<b>Convergence Angle</b>	0	54	13.3457869
<b>Scale Factor</b>	0.999991315		
<b>Elevation Adjust. Factor</b>	0.9999833842		
<b>Combined Adjust. Factor</b>	0.9999746993		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CMP	152	3.96	13.0
MK # 2	18" PINE TREE	20	25.45	83.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: MOWS	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.
Ref Mon # 2: TN42	
Ref Mon # 3: ARPG	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Level	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 11 16.0003896
<b>Longitude</b>	90 26 49.0897716
<b>Ellipsoid Height (M):</b>	77.636
<b>Geoid Height (M):</b>	-28.210

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 3.9 MILES TO THE STATION MARK ON THE LEFT, WEST 18.4 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 34.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280018 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280018A	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 100BR1, 100722
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,803.3370	
<b>Easting (M)</b>	539,032.6110	
<b>Elevation (M)*</b>	96.208	
<b>Northing (SFT)</b>	678,487.2815	
<b>Easting (SFT)</b>	1,768,476.1579	
<b>Elevation (SFT)*</b>	315.644	

  

<b>Convergence Angle</b>	0	53	58.0872025
<b>Scale Factor</b>	0.999991267		
<b>Elevation Adjust. Factor</b>	0.9999849020		
<b>Combined Adjust. Factor</b>	0.9999761691		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 3.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 31.6 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, SOUTH 35.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280018A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST TRANSFORMER POLE	95	22.56	74.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>MOWS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TN42</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPG</td> </tr> </table>	Ref Mon # 1	MOWS	Ref Mon # 2	TN42	Ref Mon # 3	ARPG	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.
Ref Mon # 1	MOWS								
Ref Mon # 2	TN42								
Ref Mon # 3	ARPG								
Comments									
DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280019	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 100BR1, 100722
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,421.5699	
<b>Easting (M)</b>	537,184.2380	
<b>Elevation (M)*</b>	127.597	
<b>Northing (SFT)</b>	683,796.4339	
<b>Easting (SFT)</b>	1,762,411.9542	
<b>Elevation (SFT)*</b>	418.626	

  

<b>Convergence Angle</b>	0	53	15.6291559
<b>Scale Factor</b>	0.999994027		
<b>Elevation Adjust. Factor</b>	0.9999799762		
<b>Combined Adjust. Factor</b>	0.9999740033		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 1.7 MILES TO THE STATION MARK ON THE LEFT, WEST 60.8 FEET OF THE CENTERLINE OF COUNTY ROAD 464, NORTH 39.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 52.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH 3 GUYS	306	28.86	94.7
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MOWS</p> <p>Ref Mon # 2: TN42</p> <p>Ref Mon # 3: ARPG</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280019A	<b>Date Monumented</b> 2/17/2010	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 34	<b>Job Number:</b> 100BR1, 100722
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	208,426.1980	
<b>Easting (M)</b>	536,642.7980	
<b>Elevation (M)*</b>	125.444	
<b>Northing (SFT)</b>	683,811.6179	
<b>Easting (SFT)</b>	1,760,635.5798	
<b>Elevation (SFT)*</b>	411.561	

  

<b>Convergence Angle</b>	0	53	3.0202867
<b>Scale Factor</b>	0.999994049		
<b>Elevation Adjust. Factor</b>	0.9999803141		
<b>Combined Adjust. Factor</b>	0.9999743633		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 1.4 MILES TO THE STATION MARK ON THE RIGHT, EAST 51.6 FEET OF THE CENTERLINE OF GRAVEL DRIVE, SOUTH 25.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280019A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CMP	265	12.28	40.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>MOWS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TN42</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPG</td> </tr> </table>	Ref Mon # 1	MOWS	Ref Mon # 2	TN42	Ref Mon # 3	ARPG	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.
Ref Mon # 1	MOWS								
Ref Mon # 2	TN42								
Ref Mon # 3	ARPG								
Comments									
DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280020	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
--------------------------	------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b>
<b>Northing (M)</b> 193,727.5871		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 514,792.1121		<b>Latitude</b> 36 4 22.1295216
<b>Elevation (M)*</b> 80.548		<b>Longitude</b> 90 43 32.1749976
<b>Northing (SFT)</b> 635,587.9253		<b>Ellipsoid Height (M):</b> 52.437
<b>Easting (SFT)</b> 1,688,947.1211		<b>Geoid Height (M):</b> -28.123
<b>Elevation (SFT)*</b> 264.265		

  

<b>Convergence Angle</b>	0	44	29.6513685
<b>Scale Factor</b>	0.999972209		
<b>Elevation Adjust. Factor</b>	0.9999873596		
<b>Combined Adjust. Factor</b>	0.9999595689		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	South of P.P.	360	19.50	64.0
<b>MK # 2</b>	North of CL of DW	180	5.49	18.0
<b>MK # 3</b>	CL of County RD 218			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280020A	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
---------------------------	------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b>
<b>Northing (M)</b> 193,289.4829		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 515,069.9874		<b>Latitude</b> 36 4 7.7996280
<b>Elevation (M)*</b> 80.878		<b>Longitude</b> 90 43 21.2977200
<b>Northing (SFT)</b> 634,150.5785		<b>Ellipsoid Height (M):</b> 52.774
<b>Easting (SFT)</b> 1,689,858.7837		<b>Geoid Height (M):</b> -28.116
<b>Elevation (SFT)*</b> 265.347		

  

<b>Convergence Angle</b>	0	44	35.9808468
<b>Scale Factor</b>	0.999971620		
<b>Elevation Adjust. Factor</b>	0.9999873078		
<b>Combined Adjust. Factor</b>	0.9999589281		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	East of 72" cmp	302	5.50	18.0
<b>MK # 2</b>	East of asphalt DW	270	9.14	30.0
<b>MK # 3</b>	CL of 412		18.00	59.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280021	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 412	<b>Job Number:</b> 0781,Mobie LiDAR-CLS,1007
--------------------------	----------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 778,261.0810		<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 519,688.2089		<b>Latitude</b> 36 4 9.5592756
<b>Elevation (M)*</b> 87.756 0.0004		<b>Longitude</b> 90 40 19.4771388
<b>Northing (SFT)</b> 2,553,344.8966		<b>Ellipsoid Height (M):</b> 59.612
<b>Easting (SFT)</b> 1,705,010.3987		<b>Geoid Height (M):</b> -28.150
<b>Elevation (SFT)*</b> 287.913		

  

<b>Convergence Angle</b> 0 44 35.6141236	<b>Location Description</b> Starting at the County line on highway 412 go east for 8.4 miles to the station on the left. The station is set in the N.E. Quadrant in the intersection of highways 141 and 412. It is a standard alum. cap set on a 4 foot rebar, and is 2 foot south of a witness post.
<b>Scale Factor</b> 1.000551639	
<b>Elevation Adjust. Factor</b> 0.9999862284	
<b>Combined Adjust. Factor</b> 1.0005378598	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CL highway 412		27.13	89.0	
MK # 2	N.E. of 62" cmp		5.49	18.0	
MK # 3	east of the edge of DW		3.35	11.0	

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> G335 and F335.*****Elevation updated from 287.895' In Sept. 2017 by crew S5101 using digital levels from NGS Benches G335 and F335 during job 100762.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280021A	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
---------------------------	------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b>
<b>Northing (M)</b> 193,414.1670		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 520,199.2343		<b>Latitude</b> 36 4 9.6375468
<b>Elevation (M)*</b> 91.397		<b>Longitude</b> 90 39 56.2675176
<b>Northing (SFT)</b> 634,559.6462		<b>Ellipsoid Height (M):</b> 63.262
<b>Easting (SFT)</b> 1,706,686.9879		<b>Geoid Height (M):</b> -28.154
<b>Elevation (SFT)*</b> 299.858		

  

<b>Convergence Angle</b>	0	46	35.2877428
<b>Scale Factor</b>	0.999971695		
<b>Elevation Adjust. Factor</b>	0.9999856570		
<b>Combined Adjust. Factor</b>	0.9999573524		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of highway 412	350	21.95	72.0
<b>MK # 2</b>	Concrete DW	80	5.79	19.0
<b>MK # 3</b>	6 foot chain link fence with 3 barbs	170	2.90	9.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280022	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100632, 100632,100633
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	198,324.3028	
<b>Easting (M)</b>	540,270.0947	
<b>Elevation (M)*</b>	83.693	
<b>Northing (SFT)</b>	650,668.9834	
<b>Easting (SFT)</b>	1,772,536.1357	
<b>Elevation (SFT)*</b>	274.581	

  

<b>Convergence Angle</b>	0	54	23.7790841
<b>Scale Factor</b>	0.999978097		
<b>Elevation Adjust. Factor</b>	0.9999868661		
<b>Combined Adjust. Factor</b>	0.9999649634		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	326	17.67	58.0
<b>MK # 2</b>	Telephone box 22	271	15.85	52.0
<b>MK # 3</b>	Service pole 99	273	28.04	92.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MODP <b>Ref Mon # 3</b> MOKE	28 ft. north of CL Greene co. rd. 835, 6.5 ft. south of the w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280022A	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100632
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	198,305.1515	
<b>Easting (M)</b>	540,944.0272	
<b>Elevation (M)*</b>	82.250	
<b>Northing (SFT)</b>	650,606.1512	
<b>Easting (SFT)</b>	1,774,747.1959	
<b>Elevation (SFT)*</b>	269.849	

  

<b>Convergence Angle</b>	0	54	39.4503010
<b>Scale Factor</b>	0.999978054		
<b>Elevation Adjust. Factor</b>	0.9999870924		
<b>Combined Adjust. Factor</b>	0.9999651467		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	113	0.91	3.0
MK # 2	Well Head	131	30.18	99.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MODP <b>Ref Mon # 3</b> MOKE	<b>Comments</b>  25ft. south of CL Greene co. rd 835, 2.0 west of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
---	--

  

Location Description	
From the intersection of Hwy.135 and Hwy.49 in Paragould, go north on Hwy.49 for 4.15 miles to the Greene Co. rd. 835, then go east on Greene Co. rd 835 for .425 miles to the station on the right. A standard GPS Alum cap stamped 280022A 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0639 Long-90.2604	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 6 38.3963544
<b>Longitude</b>	90 26 4.2288792
<b>Ellipsoid Height (M):</b>	53.970
<b>Geoid Height (M):</b>	-28.282

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280023	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100633, 100632, 100633
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,974.2335	
<b>Easting (M)</b>	542,632.8145	
<b>Elevation (M)*</b>	82.424	
<b>Northing (SFT)</b>	662,643.7977	
<b>Easting (SFT)</b>	1,780,287.8256	
<b>Elevation (SFT)*</b>	270.419	

  

<b>Convergence Angle</b>	0	55	20.1118847
<b>Scale Factor</b>	0.999983476		
<b>Elevation Adjust. Factor</b>	0.9999870652		
<b>Combined Adjust. Factor</b>	0.9999705414		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of metal bridge rail	345	2.29	7.5
MK # 2	Telephone box 4317	323	3.35	11.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="ARPG"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="MODP"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="MOKE"/>	25.5ft. south of CL of Greene Co. rd 823, 23ft. west of center of field rd. 2.0 ft. north of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

  

Location Description	
From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 3.45miles to Greene Co. rd 823, then go east on Greene Co. rd for .05miles to the station on the right. A standard GPS Alum cap stamped 280023 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0836 Long-90.2454	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280023A	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100633, 100632
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,975.8387	
<b>Easting (M)</b>	543,243.1053	
<b>Elevation (M)*</b>	81.526	
<b>Northing (SFT)</b>	662,649.0641	
<b>Easting (SFT)</b>	1,782,290.0880	
<b>Elevation (SFT)*</b>	267.472	

  

<b>Convergence Angle</b>	0	55	34.3159638
<b>Scale Factor</b>	0.999983463		
<b>Elevation Adjust. Factor</b>	0.9999872062		
<b>Combined Adjust. Factor</b>	0.9999706694		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	5	14.4587220
<b>Longitude</b>	90	24	29.9416320
<b>Ellipsoid Height:</b>	53.227		
<b>Grid Northing (Meters)</b>	195,756.1913		
<b>Grid Easting (Meters)</b>	543,343.6562		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box 4482	190	1.52	5.0
MK # 2	Power Pole	170	1.52	5.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MODP <b>Ref Mon # 3</b> MOKE	16ft. south of CL of Greene Co. rd 823, 96ft. west of gravel field entrance. 1.0ft North w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280024	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100633, 100632
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,214.7455	
<b>Easting (M)</b>	544,575.8249	
<b>Elevation (M)*</b>	83.162	
<b>Northing (SFT)</b>	673,275.3775	
<b>Easting (SFT)</b>	1,786,662.5189	
<b>Elevation (SFT)*</b>	272.841	

  

<b>Convergence Angle</b>	0	56	6.5630487
<b>Scale Factor</b>	0.999988526		
<b>Elevation Adjust. Factor</b>	0.9999869493		
<b>Combined Adjust. Factor</b>	0.9999754755		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	service pole	199	1.74	5.7
MK # 2	power pole with triple transformers	112	9.30	30.5
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MODP <b>Ref Mon # 3</b> MOKE	Position determined by static GPS observation in May 2015 by crew s5102. Elevation determined by digital levels by crew S5114 during job 100878 in Jan. 2017. Levels based on GPS mon 280017A.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280024A	<b>Date Monumented</b> 10/31/2012	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100633
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	358	1.22	4.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARPG	17ft. north of CL of Greene Co. Rd 842, 3ft. south of W.P.
Ref Mon # 2    MODP	
Ref Mon # 3    MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280025	<b>Date Monumented</b> 8/29/2017	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 141	<b>Job Number:</b> 100762
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	188,272.8067	0.0030			
<b>Easting (M)</b>	518,614.7183	0.0030			
<b>Elevation (M)*</b>	122.918	0.0023			
<b>Northing (SFT)</b>	617,691.7000				
<b>Easting (SFT)</b>	1,701,488.4550				
<b>Elevation (SFT)*</b>	403.274				

  

<b>Convergence Angle</b>	0	45	56.8455718
<b>Scale Factor</b>	0.999965210		
<b>Elevation Adjust. Factor</b>	0.9999807105		
<b>Combined Adjust. Factor</b>	0.9999459212		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North post metal sign Mt Zion Cemetery	150	13.87	45.5
<b>MK # 2</b>	James & Rosetta Arnold headstone	100	8.39	27.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARWY	<b>Comments</b>  G335 and F335 The station is 56.0' North of the center of the cemetery entrance. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.
--	---

  

Location Description	
From the intersection of US hwy 412 and AR hwy 141 west of Paragould AR travel south along hwy 141, 3.5 miles to reach the station on the left, 22.5' east of the CL of the hwy at Mt. Zion cemetery. The station is a standard 3" alum. Cap stamped 280025, 2017 on a 4' rebar driven 0.1' below the surface.	

  

<b>AZ Mark Station</b>	280025A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280025A	<b>Date Monumented</b> 8/29/2017	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 141	<b>Job Number:</b> 100762
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	188,641.3909	0.0030	
<b>Easting (M)</b>	518,681.7681	0.0030	
<b>Elevation (M)*</b>	107.587	0.0022	
<b>Northing (SFT)</b>	618,900.9633		
<b>Easting (SFT)</b>	1,701,708.4342		
<b>Elevation (SFT)*</b>	352.976		

  

<b>Convergence Angle</b>	0	45	58.5183199
<b>Scale Factor</b>	0.999965654		
<b>Elevation Adjust. Factor</b>	0.9999831163		
<b>Combined Adjust. Factor</b>	0.9999487709		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	South end of 18" CMP	45	2.74	9.0
<b>MK # 2</b>	Telephone Pedestal	110	22.50	73.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	The station is 19.0' south of the CL of a concrete driveway to two story brick home, 3328 Hwy 141. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290001	<b>Date Monumented</b> 2/1/2000	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045, 030078
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	510,716.9931	
<b>Easting (M)</b>	250,841.6800	
<b>Elevation (M)*</b>	98.850	
<b>Northing (SFT)</b>	1,675,577.3349	
<b>Easting (SFT)</b>	822,969.7451	
<b>Elevation (SFT)*</b>	324.310	

  

<b>Convergence Angle</b>	0	54	0.3635098
<b>Scale Factor</b>	0.999940337		
<b>Elevation Adjust. Factor</b>	0.9999844875		
<b>Combined Adjust. Factor</b>	0.9999248254		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 67 AND HWY. 174 IN HOPE, GO SOUTH ON HWY. 174 (SPRINGDALE DRIVE) FOR 1.367 KM (0.85 MI) TO THE JCT. WITH 16TH STREET. TURN RIGHT ON 16TH STREET AND GO WEST 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT IN THE PARKING LOT OF THE CITY SOFTBALL FIELDS. THE STATION IS 13.35 METERS NORTH OF THE CENTER OF 16TH STREET AND 4.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "290001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND SET IN A SQUARE CUTOUT IN THE PARKING LOT AND IS 5.0 CENTIMETERS BELOW THE SURFACE. THE SHOT DISTANCE IS 584.317 METERS. THIS STATION WAS UPDATED 3/2/00.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	WEST END OF CMP	130	9.55	31.3		
MK # 2	COMBINATION POLE	240	8.30	27.2		
MK # 3	LIGHT POLE	332	12.52	41.1		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HOPE 1</p> <p>Ref Mon # 2    X 303</p> <p>Ref Mon # 3    NEW BOSTON MAG. STA.</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290001A	<b>Date Monumented</b> 2/1/2000	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	510,712.9132	
<b>Easting (M)</b>	250,257.4110	
<b>Elevation (M)*</b>	97.155	
<b>Northing (SFT)</b>	1,675,563.9494	
<b>Easting (SFT)</b>	821,052.8559	
<b>Elevation (SFT)*</b>	318.749	

  

<b>Convergence Angle</b>	0	54	13.0528598
<b>Scale Factor</b>	0.999940351		
<b>Elevation Adjust. Factor</b>	0.9999847534		
<b>Combined Adjust. Factor</b>	0.9999251054		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	265	18.10	59.4
<b>MK # 2</b>	EAST END 24" CMP	275	23.55	77.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> NEW BOSTON MAG. STA.	

  

**Vertical Determined By:**    LEVEL - Unkown Quality

**Elevation Datum:**    NAVD 88

**Geoid Datum:**

**Latitude**    33    39    15.1962012

**Longitude**    93    36    52.2333216

**Ellipsoid Height (M):**    69.697   

**Geoid Height (M):**    -26.869

  

**Location Description**

FROM THE JCT. OF HWY. 67 AND HWY. 174 IN HOPE, GO SOUTH ON HWY. 174 (SPRINGDALE DRIVE) FOR 1.367 KM (0.85 MI) TO THE JCT. WITH 16TH STREET. TURN RIGHT ON 16TH STREET AND GO WEST 0.836 KM (0.52 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.75 METERS EAST OF A DRIVE WAY 30.0 METERS WEST OF A THE ENTRANCE TO A PASTURE 10.60 METERS SOUTH OF THE CENTER OF 16TH STREET AND 0.56 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "290001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 584.317 METERS. THIS STATION WAS UPDATED 3/2/00.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290002	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	519,005.1151				
<b>Easting (M)</b>	239,751.3120				
<b>Elevation (M)*</b>	130.921				
<b>Northing (SFT)</b>	1,702,769.2818				
<b>Easting (SFT)</b>	786,584.0961				
<b>Elevation (SFT)*</b>	429.530				

  

<b>Convergence Angle</b>	0	58	4.2912776
<b>Scale Factor</b>	0.999932739		
<b>Elevation Adjust. Factor</b>	0.9999794546		
<b>Combined Adjust. Factor</b>	0.9999121950		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 73 &amp; 195 IN THE SMALL VILLAGE OF CROSSROADS ABOUT 13 KM. NORTHWEST OF HOPE GO EAST ON HWY-73 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE LEFT. 55.85 METERS EAST OF THE CENTER OF HWY-195, 13.60 METERS NORTH OF THE CENTER OF HWY-73 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290002 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	101	23.19	76.1
MK # 2	POWER POLE	282	31.31	102.7
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPEPORT</p> <p>Ref Mon # 2: X 303 BM</p> <p>Ref Mon # 3: PATE 1941</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290002A	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	519,005.0172		
<b>Easting (M)</b>	239,320.3390		
<b>Elevation (M)*</b>	132.564		
<b>Northing (SFT)</b>	1,702,768.9606		
<b>Easting (SFT)</b>	785,170.1455		
<b>Elevation (SFT)*</b>	434.920		

  

<b>Convergence Angle</b>	0	58	13.6601068
<b>Scale Factor</b>	0.999932745		
<b>Elevation Adjust. Factor</b>	0.9999791968		
<b>Combined Adjust. Factor</b>	0.9999119432		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 73 AND HIGHWAY 195 IN THE SMALL VILLAGE OF CROSSROADS ABOUT 13 KM. NORTHWEST OF HOPE GO EAST ON HWY-73 FOR 0.40 KM. (0.25 MI.) TO THE STATION ON THE LEFT. 11.80 METERS SOUTH OF HWY-73 AND 0.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290002A 1996" AND IS SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	263	14.70	48.2
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HOPEPORT</p> <p><b>Ref Mon # 2</b>    X 303 BM</p> <p><b>Ref Mon # 3</b>    PATE 1941</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290003	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	523,782.6451	
<b>Easting (M)</b>	235,293.3150	
<b>Elevation (M)*</b>	131.604	
<b>Northing (SFT)</b>	1,718,443.5615	
<b>Easting (SFT)</b>	771,958.1510	
<b>Elevation (SFT)*</b>	431.771	

  

<b>Convergence Angle</b>	0	59	43.0066670
<b>Scale Factor</b>	0.999929073		
<b>Elevation Adjust. Factor</b>	0.9999793475		
<b>Combined Adjust. Factor</b>	0.9999084219		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	206	14.10	46.3
<b>MK # 2</b>	LIGHT POLE	326	5.90	19.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.
<b>Ref Mon # 2</b> X 303 BM	
<b>Ref Mon # 3</b> PATE 1941	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290003A	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	523,263.3781	
<b>Easting (M)</b>	235,547.6580	
<b>Elevation (M)*</b>	129.107	
<b>Northing (SFT)</b>	1,716,739.9330	
<b>Easting (SFT)</b>	772,792.6080	
<b>Elevation (SFT)*</b>	423.579	

  

<b>Convergence Angle</b>	0	59	37.2789452
<b>Scale Factor</b>	0.999929448		
<b>Elevation Adjust. Factor</b>	0.9999797393		
<b>Combined Adjust. Factor</b>	0.9999091887		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	234	1.90	6.2
MK # 2	FENCE CORNER AND GATE POST	305	14.70	48.2
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> X 303 BM <b>Ref Mon # 3</b> PATE 1941	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

  

Location Description			
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO EAST ON HWY-73 FOR 5.05 KM. (3.15 MI.) TO THE STATION ON THE RIGHT. 16.30 METERS SOUTHEAST OF THE CENTER OF A WOODS ROAD, 11.60 METERS SOUTHWEST OF HWY-73 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290004	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	524,678.4851	
<b>Easting (M)</b>	231,569.6220	
<b>Elevation (M)*</b>	133.984	
<b>Northing (SFT)</b>	1,721,382.6632	
<b>Easting (SFT)</b>	759,741.3348	
<b>Elevation (SFT)*</b>	439.579	

  

<b>Convergence Angle</b>	-1	1	4.3406946
<b>Scale Factor</b>	0.999928482		
<b>Elevation Adjust. Factor</b>	0.9999789740		
<b>Combined Adjust. Factor</b>	0.9999074575		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS, LOCATED ABOUT 25.0 KILOMETERS NORTHWEST OF HOPE, GO EAST ON HIGHWAY 73 FOR 0.32 KILOMETERS 0.20 MILES TO THE STATION ON THE LEFT. 0.50 METERS SOUTH OF WITNESS POST, 7.10 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 35N, 15.0 METERS NORTH OF THE CENTER OF HIGHWAY 73. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END CULVERT	278	6.65	21.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> X 303 BM <b>Ref Mon # 3</b> PATE 1941	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290004A	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 524,538.2381		<b>Latitude</b> 33 46 33.5446644
<b>Easting (M)</b> 231,273.4580		<b>Longitude</b> 93 49 18.4945692
<b>Elevation (M)*</b> 130.717		<b>Ellipsoid Height (M):</b> 103.071
		<b>Geoid Height (M):</b> -27.646

  

<b>Northing (SFT)</b> 1,720,922.5362		<b>Location Description</b>
<b>Easting (SFT)</b> 758,769.6701		<p>THE STATION IS LOCATED IN THE SMALL TOWN OF COLUMBUS, LOCATED ABOUT 25 KILOMETERS NORTHWEST OF HOPE , ACROSS HIGHWAY 73 FROM THE POST OFFICE. 0.50 METERS SOUTHEAST OF A WITNESS POST, 6.20 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD, 10.95 METERS NORTHWEST OF THE CENTER OF HIGHWAY 73. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 428.861		
<b>Convergence Angle</b> -1 1 10.7283300		
<b>Scale Factor</b> 0.999928584		
<b>Elevation Adjust. Factor</b> 0.9999794867		
<b>Combined Adjust. Factor</b> 0.9999080721		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST END OF CULVERT	102	5.65	18.5
<b>MK # 2</b>	LIGHT POLE	253	10.43	34.2
<b>MK # 3</b>	NORTHEAST END OF CULVERT	226	24.48	80.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	<p>Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.</p>
<b>Ref Mon # 2</b> X 303 BM	
<b>Ref Mon # 3</b> PATE 1941	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290005	<b>Date Monumented</b> 7/29/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	533,294.7132				
<b>Easting (M)</b>	233,146.8460				
<b>Elevation (M)*</b>	139.754				
<b>Northing (SFT)</b>	1,749,651.0716				
<b>Easting (SFT)</b>	764,915.9439				
<b>Elevation (SFT)*</b>	458.510				

  

<b>Convergence Angle</b>	-1	0	33.3356478
<b>Scale Factor</b>	0.999923334		
<b>Elevation Adjust. Factor</b>	0.9999780685		
<b>Combined Adjust. Factor</b>	0.9999014042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN LINE POST	288	15.90	52.2
<b>MK # 2</b>	WESTERN MOST WOODEN BRACE POST	121	30.12	98.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 51 18.7988004
<b>Longitude</b>	93 48 11.6850204
<b>Ellipsoid Height (M):</b>	112.745
<b>Geoid Height (M):</b>	-27.009

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 0.12 KM (0.07 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.37 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 2.26 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290005A	<b>Date Monumented</b> 7/29/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	533,105.9681				
<b>Easting (M)</b>	233,477.9520				
<b>Elevation (M)*</b>	139.905				
<b>Northing (SFT)</b>	1,749,031.8303				
<b>Easting (SFT)</b>	766,002.2475				
<b>Elevation (SFT)*</b>	459.005				

  

<b>Convergence Angle</b>	-1	0	26.0548414
<b>Scale Factor</b>	0.999923424		
<b>Elevation Adjust. Factor</b>	0.9999780448		
<b>Combined Adjust. Factor</b>	0.9999014705		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 0.50 KM (0.31 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 1.55 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPEPORT</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290006	<b>Date Monumented</b> 7/28/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	533,094.5431	
<b>Easting (M)</b>	236,576.8950	
<b>Elevation (M)*</b>	129.322	
<b>Northing (SFT)</b>	1,748,994.3468	
<b>Easting (SFT)</b>	776,169.3630	
<b>Elevation (SFT)*</b>	424.284	

  

<b>Convergence Angle</b>	0	59	18.5838895
<b>Scale Factor</b>	0.999923403		
<b>Elevation Adjust. Factor</b>	0.9999797056		
<b>Combined Adjust. Factor</b>	0.9999031101		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN LINE POST	126	12.51	41.0
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	287	15.50	50.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	X 303	Ref Mon # 3		<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	HOPEPORT						
Ref Mon # 2	X 303						
Ref Mon # 3							

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 33 51 14.2434540

**Longitude** 93 45 58.1259672

**Ellipsoid Height (M):** 102.328

**Geoid Height (M):** -26.994

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 3.86 KM ( 2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 2.33 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	290006A
<b>Geodetic Azimuth</b>	116 25 38.75647
<b>Grid Azimuth</b>	117 24 57.31552

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290006A	<b>Date Monumented</b> 7/29/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	532,844.2771				
<b>Easting (M)</b>	237,059.3730				
<b>Elevation (M)*</b>	130.185				
<b>Northing (SFT)</b>	1,748,173.2658				
<b>Easting (SFT)</b>	777,752.2929				
<b>Elevation (SFT)*</b>	427.115				

  

<b>Convergence Angle</b>	0	59	7.9861408
<b>Scale Factor</b>	0.999923523		
<b>Elevation Adjust. Factor</b>	0.9999795701		
<b>Combined Adjust. Factor</b>	0.9999030947		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	299	25.16	82.5
MK # 2	TELEPHONE JUNCTION BOX	226	27.56	90.4
MK # 3				

  

<b>AZ Mark Station</b>	290006
<b>Geodetic Azimuth</b>	296 25 49.30456
<b>Grid Azimuth</b>	297 24 57.31552

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290007	<b>Date Monumented</b> 7/28/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,280.6691	
<b>Easting (M)</b>	241,437.1740	
<b>Elevation (M)*</b>	116.789	
<b>Northing (SFT)</b>	1,743,043.3285	
<b>Easting (SFT)</b>	792,115.1284	
<b>Elevation (SFT)*</b>	383.165	

  

<b>Convergence Angle</b>	0	57	32.1090374
<b>Scale Factor</b>	0.999924293		
<b>Elevation Adjust. Factor</b>	0.9999816723		
<b>Combined Adjust. Factor</b>	0.9999059667		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 9.98 KM (6.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.15 METERS EAST OF THE CENTER OF U.S. HIGHWAY 278, 7.92 METERS WEST OF THE WEST RAIL AND 1.39 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKED SIGN	48	1.50	4.9
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	290007A
<b>Geodetic Azimuth</b>	325 20 54.09323
<b>Grid Azimuth</b>	326 18 26.22372

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290007A	<b>Date Monumented</b> 7/29/1998	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> R30054
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,853.9791	
<b>Easting (M)</b>	241,054.9280	
<b>Elevation (M)*</b>	113.627	
<b>Northing (SFT)</b>	1,744,924.2631	
<b>Easting (SFT)</b>	790,861.0429	
<b>Elevation (SFT)*</b>	372.791	

  

<b>Convergence Angle</b>	0	57	40.6388416
<b>Scale Factor</b>	0.999923993		
<b>Elevation Adjust. Factor</b>	0.9999821685		
<b>Combined Adjust. Factor</b>	0.9999061629		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.50 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 58, 11.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 278 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	153	19.60	64.3
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPEPORT</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290008	<b>Date Monumented</b> 2/1/1999	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	505,488.2721		
<b>Easting (M)</b>	247,778.9070		
<b>Elevation (M)*</b>	102.031		
<b>Northing (SFT)</b>	1,658,422.7727		
<b>Easting (SFT)</b>	812,921.2974		
<b>Elevation (SFT)*</b>	334.747		

  

<b>Convergence Angle</b>	0	55	5.0689473
<b>Scale Factor</b>	0.999946149		
<b>Elevation Adjust. Factor</b>	0.9999839883		
<b>Combined Adjust. Factor</b>	0.9999301381		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END LINE BRACE POST	13	3.00	9.8
<b>MK # 2</b>	SOUTH END LINE BRACE POST	258	140.00	459.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> NEW BOSTON MAG. STA.	

  

**Vertical Determined By:**    LEVEL - Unkown Quality

**Elevation Datum:**    NAVD 88

**Geoid Datum:**

**Latitude**    33    36    24.3525564

**Longitude**    93    38    25.1705256

**Ellipsoid Height (M):**    74.642   

**Geoid Height (M):**    -26.867

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 2.33 KM (1.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 174 AND 0.78 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A SANDARD 64mm CAP STAMPED "290008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.021 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290008A	<b>Date Monumented</b> 2/1/2000	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	505,107.6311		
<b>Easting (M)</b>	247,537.0140		
<b>Elevation (M)*</b>	98.429		
<b>Northing (SFT)</b>	1,657,173.9530		
<b>Easting (SFT)</b>	812,127.6868		
<b>Elevation (SFT)*</b>	322.929		

  

<b>Convergence Angle</b>	0	55	10.1874763
<b>Scale Factor</b>	0.999946599		
<b>Elevation Adjust. Factor</b>	0.9999845535		
<b>Combined Adjust. Factor</b>	0.9999311533		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	31	17.58	57.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> NEW BOSTON MAG. STA.	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    36    11.8730376
<b>Longitude</b>	93    38    34.3158072
<b>Ellipsoid Height (M):</b>	71.085
<b>Geoid Height (M):</b>	-26.867

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.60 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 174 AND 0.76 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.021 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290009	<b>Date Monumented</b> 2/1/2000	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,184.3011	
<b>Easting (M)</b>	249,200.4910	
<b>Elevation (M)*</b>	92.818	
<b>Northing (SFT)</b>	1,667,267.9945	
<b>Easting (SFT)</b>	817,585.2776	
<b>Elevation (SFT)*</b>	304.520	

  

<b>Convergence Angle</b>	0	54	35.1377000
<b>Scale Factor</b>	0.999943069		
<b>Elevation Adjust. Factor</b>	0.9999854340		
<b>Combined Adjust. Factor</b>	0.9999285039		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.40 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 174, 4.40 METERS SOUTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 0.45 METERS NORTHWEST OF AWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 311.558 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER FENCE POST	40	8.00	26.2	
MK # 2	CORNER FENCE POST	70	1.70	5.6	
MK # 3	SOUTHWEST END OF RCP	341	2.40	7.9	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 NEW BOSTON MAG. STA.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290009A	<b>Date Monumented</b> 2/1/2000	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 174	<b>Job Number:</b> R30045
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,435.3452	
<b>Easting (M)</b>	249,384.9610	
<b>Elevation (M)*</b>	88.232	
<b>Northing (SFT)</b>	1,668,091.6284	
<b>Easting (SFT)</b>	818,190.4929	
<b>Elevation (SFT)*</b>	289.474	

  

<b>Convergence Angle</b>	0	54	31.2184254
<b>Scale Factor</b>	0.999942791		
<b>Elevation Adjust. Factor</b>	0.9999861537		
<b>Combined Adjust. Factor</b>	0.9999289455		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.63 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE OVER BLACK BRANCH, 6.70 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 174 AND 0.90 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 311.558 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	46	4.30	14.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD HOPE 1</p> <p><b>Ref Mon # 2</b>    X 303</p> <p><b>Ref Mon # 3</b>    NEW BOSTON MAG. STA.</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290010	<b>Date Monumented</b> 4/26/2001	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	519,612.5200	
<b>Easting (M)</b>	253,579.5921	
<b>Elevation (M)*</b>	105.662	
<b>Northing (SFT)</b>	1,704,762.0760	
<b>Easting (SFT)</b>	831,952.3784	
<b>Elevation (SFT)*</b>	346.660	

  

<b>Convergence Angle</b>	0	53	3.8764839
<b>Scale Factor</b>	0.999932052		
<b>Elevation Adjust. Factor</b>	0.9999834184		
<b>Combined Adjust. Factor</b>	0.9999154716		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN GATE POST	356	18.55	60.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> HOPE 2	
<b>Ref Mon # 3</b> HOPEPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 44 5.7142392
<b>Longitude</b>	93 34 48.6358104
<b>Ellipsoid Height (M):</b>	78.755
<b>Geoid Height (M):</b>	-26.878

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 4.30 KM (2.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.00 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE, 12.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 29 AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 501.329 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290010A	<b>Date Monumented</b> 4/26/2001	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	519,113.2300		
<b>Easting (M)</b>	253,534.8524		
<b>Elevation (M)*</b>	107.644		
<b>Northing (SFT)</b>	1,703,123.9888		
<b>Easting (SFT)</b>	831,805.5949		
<b>Elevation (SFT)*</b>	353.162		

  

<b>Convergence Angle</b>	0	53	4.6815680
<b>Scale Factor</b>	0.999932463		
<b>Elevation Adjust. Factor</b>	0.9999831074		
<b>Combined Adjust. Factor</b>	0.9999155716		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	338	18.72	61.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	390010
<b>Geodetic Azimuth</b>	4 14 08.790478
<b>Grid Azimuth</b>	5 07 13.468894

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> HOPE 2	
<b>Ref Mon # 3</b> HOPEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290011	<b>Date Monumented</b> 4/26/2001	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,024.9365	
<b>Easting (M)</b>	253,803.3656	
<b>Elevation (M)*</b>	115.478	
<b>Northing (SFT)</b>	1,719,238.4792	
<b>Easting (SFT)</b>	832,686.5420	
<b>Elevation (SFT)*</b>	378.864	

  

<b>Convergence Angle</b>	0	53	0.4906868
<b>Scale Factor</b>	0.999928682		
<b>Elevation Adjust. Factor</b>	0.9999818781		
<b>Combined Adjust. Factor</b>	0.9999105614		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 8.61 KM (5.35 MI) TO THE JUNCTION OF STATE HIGHWAY 332 EAST AND THE STATION ON THE RIGHT. THE STATION IS 58.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 332, 15.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 29, 4.75 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.08 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 922.120 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	127	7.30	24.0
MK # 2	WOODEN BRACE POST	71	1.40	4.6
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPE 1</p> <p>Ref Mon # 2: HOPE 2</p> <p>Ref Mon # 3: HOPEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290011A	<b>Date Monumented</b> 4/26/2001	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	523,105.4370				
<b>Easting (M)</b>	253,734.8431				
<b>Elevation (M)*</b>	111.266				
<b>Northing (SFT)</b>	1,716,221.7546				
<b>Easting (SFT)</b>	832,461.7311				
<b>Elevation (SFT)*</b>	365.045				

  

<b>Convergence Angle</b>	0	53	1.6726151
<b>Scale Factor</b>	0.999929345		
<b>Elevation Adjust. Factor</b>	0.9999825391		
<b>Combined Adjust. Factor</b>	0.9999118853		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 31.00 METERS SOUTH OF THE CENTER OF COUNTY ROAD 251, 10.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 29 AND 1.88 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 922.120 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	352	26.25	86.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE 1 <b>Ref Mon # 2</b> HOPE 2 <b>Ref Mon # 3</b> HOPEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290012	<b>Date Monumented</b> 2/12/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 67	<b>Job Number:</b> 030152
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	516,392.8491	
<b>Easting (M)</b>	259,485.2540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,694,198.8724	
<b>Easting (SFT)</b>	851,327.8708	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	50	54.4417908
<b>Scale Factor</b>	0.999934730		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONC RIGHT OF WAY MKR	55	21.50	70.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARTX	
Ref Mon # 2: HOPE	
Ref Mon # 3: CSAL	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 42 24.1183080
<b>Longitude</b>	93 30 57.3746940
<b>Ellipsoid Height (M):</b>	61.746
<b>Geoid Height (M):</b>	-26.819

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 174 AND HIGHWAY 67, EAST OF HOPE, GO NORTH ON HIGHWAY 67 2.4 MILES TO THE STATION ON THE LEFT. 13.80 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 1.60 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290012 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290012A	<b>Date Monumented</b> 2/12/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 67	<b>Job Number:</b> 030152
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	516,571.8451		
<b>Easting (M)</b>	259,898.7580		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,694,786.1285		
<b>Easting (SFT)</b>	852,684.5085		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	50	45.5119953
<b>Scale Factor</b>	0.999934565		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD BRACE POST	58	13.60	44.6
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	290012
<b>Geodetic Azimuth</b>	245 44 50
<b>Grid Azimuth</b>	246 35 36

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARTX	
Ref Mon # 2 HOPE	
Ref Mon # 3 CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290013	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 195	<b>Job Number:</b> R30076
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	541,961.2501	
<b>Easting (M)</b>	256,636.2440	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,778,084.5347	
<b>Easting (SFT)</b>	841,980.7439	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	52	4.7821223
<b>Scale Factor</b>	0.999919913		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	1st POWER POLE WEST OF BRIDGE	74	25.60	84.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	290013A
<b>Geodetic Azimuth</b>	271 25 54
<b>Grid Azimuth</b>	272 17 59

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD LROC	
<b>Ref Mon # 2</b> AHTD HOPE C.O.R.S.	
<b>Ref Mon # 3</b> DQUA C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290013A	<b>Date Monumented</b> 7/30/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 195	<b>Job Number:</b> R30076
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	541,987.0951	
<b>Easting (M)</b>	255,992.6910	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,778,169.3278	
<b>Easting (SFT)</b>	839,869.3537	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	52	18.8155305
<b>Scale Factor</b>	0.999919909		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	1st POWER POLE EAST OF MAILBOX 3408	77	30.40	99.7
<b>MK # 2</b>	MAILBOX 3408	262	36.40	119.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LROC	
<b>Ref Mon # 2</b> AHTD HOPE C.O.R.S.	
<b>Ref Mon # 3</b> DQUA C.O.R.S.	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 56 13.0728948
<b>Longitude</b>	93 33 28.1253528
<b>Ellipsoid Height (M):</b>	55.945
<b>Geoid Height (M):</b>	-26.960

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 3.35 MILES TO THE STATION ON THE LEFT, NORTH 7.95 METERS OF THE CENTERLINE AND SOUTH 4.25 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290013A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290014	<b>Date Monumented</b> 8/4/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 195	<b>Job Number:</b> R30076
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	541,031.4191	
<b>Easting (M)</b>	253,783.9260	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,775,033.9142	
<b>Easting (SFT)</b>	832,622.7639	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	53	6.6288792
<b>Scale Factor</b>	0.999920184		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	41	5.40	17.7
<b>MK # 2</b>	FENCE CORNER	117	2.10	6.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LROC	
<b>Ref Mon # 2</b> AHTD HOPE C.O.R.S.	
<b>Ref Mon # 3</b> DQUA C.O.R.S.	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 55 40.9578996
<b>Longitude</b>	93 34 53.5535184
<b>Ellipsoid Height (M):</b>	89.705
<b>Geoid Height (M):</b>	-26.966

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.55 MILES TO A GRAVEL COUNTY ROAD NUMBER 282, TURN LEFT ON COUNTY ROAD 282 (NORTH) AND GO 0.30 MILES TO A GRAVEL PRIVATE DRIVE NUMBER 162, TURN LEFT (WEST) AND GO 0.07 MILES TO THE STATION ON THE LEFT, SOUTH 9.80 METERS OF THE CENTERLINE AND NORTH 0.35 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	290014
<b>Geodetic Azimuth</b>	203 29 54
<b>Grid Azimuth</b>	204 23 00

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290014A	<b>Date Monumented</b> 8/4/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 195	<b>Job Number:</b> R30076
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	540,481.3950	
<b>Easting (M)</b>	253,534.6160	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,773,229.3768	
<b>Easting (SFT)</b>	831,804.8193	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	53	11.8759841
<b>Scale Factor</b>	0.999920349		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.35 MILES TO THE STATION ON THE LEFT, NORTH 8.35 METERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	BIRD HOUSE POST	202	20.70	67.9		290014
MK # 2						23 29 49
MK # 3						24 23 00

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	
Ref Mon # 2 AHTD HOPE C.O.R.S.	
Ref Mon # 3 DQUA C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290015	<b>Date Monumented</b> 10/13/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 67	<b>Job Number:</b> 030152, 030078
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,180.4272	
<b>Easting (M)</b>	254,349.1060	
<b>Elevation (M)*</b>	103.189	
<b>Northing (SFT)</b>	1,680,378.6182	
<b>Easting (SFT)</b>	834,477.0253	
<b>Elevation (SFT)*</b>	338.546	

  

<b>Convergence Angle</b>	0	52	44.6668927
<b>Scale Factor</b>	0.999938792		
<b>Elevation Adjust. Factor</b>	0.9999838065		
<b>Combined Adjust. Factor</b>	0.9999225995		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION MARK IS LOCATED IN THE SOUTH EAST CORNER OF THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 73, EAST OF HOPE, 22.25 METERS WEST OF THE CENTERLINE OF HIGHWAY 73, 24.0 METERS SOUTH OF CENTERLINE HIGHWAY 67 AND 5.18 METERS NORTH OF OLD PAVED ROAD. NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	30" CMP	286	11.58	38.0
MK # 2	MAN HOLE	52	15.85	52.0
MK # 3	FIRE HYDRANT	118	23.77	78.0

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARTX	3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.
Ref Mon # 2	HOPE	
Ref Mon # 3	CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290015A	<b>Date Monumented</b> 10/13/2003	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 67	<b>Job Number:</b> 030152
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,693.9902	
<b>Easting (M)</b>	254,981.7920	
<b>Elevation (M)*</b>	99.887	
<b>Northing (SFT)</b>	1,682,063.5328	
<b>Easting (SFT)</b>	836,552.7626	
<b>Elevation (SFT)*</b>	327.712	

  

<b>Convergence Angle</b>	0	52	31.0926469
<b>Scale Factor</b>	0.999938272		
<b>Elevation Adjust. Factor</b>	0.9999843248		
<b>Combined Adjust. Factor</b>	0.9999225977		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RIGHT OF WAY MARKER	21	67.00	219.8
<b>MK # 2</b>	MAN HOLE	23	19.81	65.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARTX	3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.
<b>Ref Mon # 2</b> HOPE	
<b>Ref Mon # 3</b> CSAL	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 40 21.8724708
<b>Longitude</b>	93 33 50.0608908
<b>Ellipsoid Height (M):</b>	72.940
<b>Geoid Height (M):</b>	-26.837

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND HIGHWAY 73, EAST OF HOPE, GO NORTH ON HIGHWAY 67 0.50 MILES TO THE STATION ON THE LEFT, 13.4 METERS SOUTH WEST OF A DRIVE WAY AND 15.24 METERS NORTH WEST OF HIGHWAY 67. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 290015A 2003" ON TOP OF A 1.22 METER IRO ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	290015
<b>Geodetic Azimuth</b>	230 03 28
<b>Grid Azimuth</b>	230 55 59

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290016	<b>Date Monumented</b> 5/23/2006	<b>Monumented By</b> AHTD	<b>County</b> Hempstead	<b>Route</b> NA	<b>Job Number:</b> 030330,030393
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,229.0252	
<b>Easting (M)</b>	252,533.1090	
<b>Elevation (M)*</b>	103.665	
<b>Northing (SFT)</b>	1,677,257.2268	
<b>Easting (SFT)</b>	828,519.0418	
<b>Elevation (SFT)*</b>	340.107	

  

<b>Convergence Angle</b>	0	53	23.7970640
<b>Scale Factor</b>	0.999939782		
<b>Elevation Adjust. Factor</b>	0.9999837319		
<b>Combined Adjust. Factor</b>	0.9999235149		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 29B,67 and 278 in downtown Hope go south on 29B for 0.20 miles to 6th street. Turn right on 6th street and go one block to Elm street, turn left on Elm street and go 0.35 miles to the station on the left</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Water meter		179	10.40	34.1
MK # 2	Telephone junction box		155	15.35	50.4
MK # 3	Manhole		195	30.00	98.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Hope CORS ARP <b>Ref Mon # 2</b> Camden CORS ARP <b>Ref Mon # 3</b> Garland	Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290016A	<b>Date Monumented</b> 5/23/2006	<b>Monumented By</b> AHTD	<b>County</b> Hempstead	<b>Route</b> NA	<b>Job Number:</b> 030330,030393
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	511,789.2382	
<b>Easting (M)</b>	252,359.5470	
<b>Elevation (M)*</b>	106.429	
<b>Northing (SFT)</b>	1,679,095.1923	
<b>Easting (SFT)</b>	827,949.6138	
<b>Elevation (SFT)*</b>	349.176	

  

<b>Convergence Angle</b>	0	53	27.7564468
<b>Scale Factor</b>	0.999939215		
<b>Elevation Adjust. Factor</b>	0.9999832981		
<b>Combined Adjust. Factor</b>	0.9999225141		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water meter	81	3.30	10.8
<b>MK # 2</b>	Gas meter	151	17.50	57.4
<b>MK # 3</b>	SE corner of brick library building	322	17.50	57.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Hope CORS ARP	Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.
<b>Ref Mon # 2</b> Camden CORS ARP	
<b>Ref Mon # 3</b> Garland	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290017	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030348
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	492,461.0682	
<b>Easting (M)</b>	248,978.3070	
<b>Elevation (M)*</b>	86.224	
<b>Northing (SFT)</b>	1,615,682.6879	
<b>Easting (SFT)</b>	816,856.3289	
<b>Elevation (SFT)*</b>	282.887	

  

<b>Convergence Angle</b>	0	54	34.5416281
<b>Scale Factor</b>	0.999963390		
<b>Elevation Adjust. Factor</b>	0.9999864688		
<b>Combined Adjust. Factor</b>	0.9999498593		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 2 ARHP	
Ref Mon # 3 TXMA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 22.1774172
<b>Longitude</b>	93 37 30.6273288
<b>Ellipsoid Height (M):</b>	59.436
<b>Geoid Height (M):</b>	-26.781

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 1.0 MILES TO THE STATION MARK ON THE LEFT, 16.0 FEET NORTHEAST OF THE CENTERLINE AN ASPH FIELD DRIVE, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 60.50 FEET AND NORTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017 2007" ON TOP OF A 2.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE OLD ROAD BED.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290017A	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030348
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	493,173.4217		
<b>Easting (M)</b>	249,448.3980		
<b>Elevation (M)*</b>	94.648		
<b>Northing (SFT)</b>	1,618,019.8010		
<b>Easting (SFT)</b>	818,398.6191		
<b>Elevation (SFT)*</b>	310.523		

  

<b>Convergence Angle</b>	0	54	24.5949838
<b>Scale Factor</b>	0.999962328		
<b>Elevation Adjust. Factor</b>	0.9999851469		
<b>Combined Adjust. Factor</b>	0.9999474755		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 0.5 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 67.3 FEET AND NORTHEAST 5.10 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARHP</p> <p>Ref Mon # 3    TXMA</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290018A	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030348
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,302.9562	
<b>Easting (M)</b>	250,437.0400	
<b>Elevation (M)*</b>	110.801	
<b>Northing (SFT)</b>	1,647,972.2821	
<b>Easting (SFT)</b>	821,642.1887	
<b>Elevation (SFT)*</b>	363.519	

  

<b>Convergence Angle</b>	0	54	6.2760168
<b>Scale Factor</b>	0.999949935		
<b>Elevation Adjust. Factor</b>	0.9999826120		
<b>Combined Adjust. Factor</b>	0.9999325479		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	271	2.23	7.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCM	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 2 ARHP	
Ref Mon # 3 TXMA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 34 42.3437016
<b>Longitude</b>	93 36 40.1251284
<b>Ellipsoid Height (M):</b>	83.965
<b>Geoid Height (M):</b>	-26.836

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 0.35 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 60.4 FEET AND EAST 9.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290018A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290019	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030348
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,289.3861	
<b>Easting (M)</b>	252,180.8840	
<b>Elevation (M)*</b>	107.086	
<b>Northing (SFT)</b>	1,667,612.7609	
<b>Easting (SFT)</b>	827,363.4503	
<b>Elevation (SFT)*</b>	351.330	

  

<b>Convergence Angle</b>	0	53	30.4541421
<b>Scale Factor</b>	0.999942903		
<b>Elevation Adjust. Factor</b>	0.9999831950		
<b>Combined Adjust. Factor</b>	0.9999260990		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	188	36.88	121.0
<b>MK # 2</b>	WATER METER	30	15.85	52.0
<b>MK # 3</b>	POWER POLE	98	2.23	7.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> TXMA	<b>Comments</b> 3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.
---	---

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 4.1 MILES TO THE STATION MARK ON THE RIGHT, NORTH 74.0 FEET OF THE CENTERLIN OF A CONCRETE DRIVE, EAST OF THE CENTERLINE OF THE HIGHWAY 78.0 FEET, AND WEST 7.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290019 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290019A	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030348
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	507,727.3131				
<b>Easting (M)</b>	251,910.5860				
<b>Elevation (M)*</b>	113.863				
<b>Northing (SFT)</b>	1,665,768.6931				
<b>Easting (SFT)</b>	826,476.6476				
<b>Elevation (SFT)*</b>	373.564				

  

<b>Convergence Angle</b>	0	53	36.1334119
<b>Scale Factor</b>	0.999943527		
<b>Elevation Adjust. Factor</b>	0.9999821316		
<b>Combined Adjust. Factor</b>	0.9999256596		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	207	22.37	73.4
<b>MK # 2</b>	NORTH END OF AN 18" CMP	169	16.31	53.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> TXMA	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 3.7 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 66.7 FEET AND EAST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290019A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290020	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 355	<b>Job Number:</b> 030348
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	494,821.3562	
<b>Easting (M)</b>	254,383.3220	
<b>Elevation (M)*</b>	96.971	
<b>Northing (SFT)</b>	1,623,426.3995	
<b>Easting (SFT)</b>	834,589.2823	
<b>Elevation (SFT)*</b>	318.147	

  

<b>Convergence Angle</b>	0	52	38.1490674
<b>Scale Factor</b>	0.999959834		
<b>Elevation Adjust. Factor</b>	0.9999847823		
<b>Combined Adjust. Factor</b>	0.9999446169		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	25	26.58	87.2
MK # 2	C 63 BM IN SOUTH END HEADWALL	169	19.51	64.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> TXMA	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO EAST ON HIGHWAY 355 2.9 MILES TO THE STATION MARK ON THE RIGHT, WEST OF THE CENTERLINE OF COUNTY ROAD 144S 24.6 FEET, SOUTH OF THE CENTERLINE OF THE HIGHWAY 36.7 FEET AND WEST 43.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290020 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND IN THE OLD RAIL ROAD BED.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290021	<b>Date Monumented</b> 4/20/2010	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 371	<b>Job Number:</b> 030387
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	543,740.1921				
<b>Easting (M)</b>	235,215.2670				
<b>Elevation (M)*</b>	116.486				
<b>Northing (SFT)</b>	1,783,920.9469				
<b>Easting (SFT)</b>	771,702.0885				
<b>Elevation (SFT)*</b>	382.172				

  

<b>Convergence Angle</b>	0	59	52.2645364
<b>Scale Factor</b>	0.999919557		
<b>Elevation Adjust. Factor</b>	0.9999817198		
<b>Combined Adjust. Factor</b>	0.9999012783		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	67	26.28	86.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.
Ref Mon # 2: ARHP	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290021A	<b>Date Monumented</b> 4/20/2010	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 371	<b>Job Number:</b> 030387
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	543,692.6781				
<b>Easting (M)</b>	235,779.8320				
<b>Elevation (M)*</b>	112.032				
<b>Northing (SFT)</b>	1,783,765.0614				
<b>Easting (SFT)</b>	773,554.3322				
<b>Elevation (SFT)*</b>	367.559				

  

<b>Convergence Angle</b>	0	59	39.9416660
<b>Scale Factor</b>	0.999919565		
<b>Elevation Adjust. Factor</b>	0.9999824188		
<b>Combined Adjust. Factor</b>	0.9999019852		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CABLE MARKER	149	14.63	48.0
<b>MK # 2</b>	CENTER OF FENCE GAP	167	12.19	40.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290022	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306
--------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	509,356.0574	0.0020			
<b>Easting (M)</b>	242,691.6454	0.0020			
<b>Elevation (M)*</b>	82.891				
<b>Northing (SFT)</b>	1,671,112.3317				
<b>Easting (SFT)</b>	796,230.8399				
<b>Elevation (SFT)*</b>	271.950				

  

<b>Convergence Angle</b>	0	56	56.8962145
<b>Scale Factor</b>	0.999941911		
<b>Elevation Adjust. Factor</b>	0.9999869919		
<b>Combined Adjust. Factor</b>	0.9999289037		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER OF HEADWALL	205	6.80	22.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> TXCR	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 38 27.1895064
<b>Longitude</b>	93 41 44.9724336
<b>Ellipsoid Height (M):</b>	55.871 0.0084
<b>Geoid Height (M):</b>	-27.019 0.0084

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.2 FEET FROM THE EDGE OF THE ASPHALT, WEST 55.5 FEET OF A FENCE AND NORTH 55.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290022A	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	509,597.5847 0.0020
<b>Easting (M)</b>	243,264.1603 0.0020
<b>Elevation (M)*</b>	86.124
<b>Northing (SFT)</b>	1,671,904.7425
<b>Easting (SFT)</b>	798,109.1659
<b>Elevation (SFT)*</b>	282.559

  

<b>Convergence Angle</b>	0	56	44.5494596
<b>Scale Factor</b>	0.999941643		
<b>Elevation Adjust. Factor</b>	0.9999864845		
<b>Combined Adjust. Factor</b>	0.9999281283		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2    ARCM	
Ref Mon # 3    TXCR	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.7 FEET FROM THE EDGE OF THE ASPHALT, AND NORTH 18.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	290022
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290023	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306
--------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	510,774.6163 0.0030
<b>Easting (M)</b>	246,007.8607 0.0030
<b>Elevation (M)*</b>	84.669
<b>Northing (SFT)</b>	1,675,766.3870
<b>Easting (SFT)</b>	807,110.7896
<b>Elevation (SFT)*</b>	277.784

  

<b>Convergence Angle</b>	0 55 45.3771361
<b>Scale Factor</b>	0.999940357
<b>Elevation Adjust. Factor</b>	0.9999867129
<b>Combined Adjust. Factor</b>	0.9999270707

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1 NORTHEAST CORNER OF BRIDGE	196	2.44	8.0
MK # 2			
MK # 3			

  

<b>AZ Mark Station</b>	290023A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> TXCR	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290023A	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	511,083.4846 0.0030
<b>Easting (M)</b>	246,779.2808 0.0020
<b>Elevation (M)*</b>	84.632
<b>Northing (SFT)</b>	1,676,779.7324
<b>Easting (SFT)</b>	809,641.6904
<b>Elevation (SFT)*</b>	277.664

  

<b>Convergence Angle</b>	0 55 28.7297390
<b>Scale Factor</b>	0.999940025
<b>Elevation Adjust. Factor</b>	0.9999867186
<b>Combined Adjust. Factor</b>	0.9999267444

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1 SOUTHEAST CORNER OF BRIDGE	260	4.24	13.9
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2 ARCM	
Ref Mon # 3 TXCR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290024	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306
--------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	512,471.3034	0.0030			
<b>Easting (M)</b>	249,172.0324	0.0020			
<b>Elevation (M)*</b>	91.126				
<b>Northing (SFT)</b>	1,681,332.9346				
<b>Easting (SFT)</b>	817,491.9096				
<b>Elevation (SFT)*</b>	298.968				

  

<b>Convergence Angle</b>	0	54	37.2348825
<b>Scale Factor</b>	0.999938582		
<b>Elevation Adjust. Factor</b>	0.9999856996		
<b>Combined Adjust. Factor</b>	0.9999242825		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF BOX CULVERT	111	4.42	14.5
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> TXCR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 40 11.7067512
<b>Longitude</b>	93 37 35.4393696
<b>Ellipsoid Height (M):</b>	64.131 0.0101
<b>Geoid Height (M):</b>	-26.994 0.0101

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.5 FEET FROM THE EDGE OF THE ASPHALT, AND NORTHWEST 12.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290024A	<b>Date Monumented</b> 1/22/2014	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 30	<b>Job Number:</b> BB0306, 3720_7
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	512,975.9615	0.0020			
<b>Easting (M)</b>	249,769.0397	0.0020			
<b>Elevation (M)*</b>	100.196				
<b>Northing (SFT)</b>	1,682,988.6337				
<b>Easting (SFT)</b>	819,450.5911				
<b>Elevation (SFT)*</b>	328.725				

  

<b>Convergence Angle</b>	0	54	24.4386286
<b>Scale Factor</b>	0.999938074		
<b>Elevation Adjust. Factor</b>	0.9999842763		
<b>Combined Adjust. Factor</b>	0.9999223513		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	15	3.66	12.0
MK # 2	END OF PARAPET WALL	317	2.44	8.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> TXCR	<b>Comments</b>  Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
---	--

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 40 28.3925892
<b>Longitude</b>	93 37 12.5762880
<b>Ellipsoid Height (M):</b>	73.205 0.0099
<b>Geoid Height (M):</b>	-26.991 0.0099

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290025	<b>Date Monumented</b> 5/19/2015	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 40	<b>Job Number:</b> BB0305
--------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	507,961.7586	0.0020			
<b>Easting (M)</b>	238,306.4282	0.0030			
<b>Elevation (M)*</b>					

  

<b>Northing (SFT)</b>	1,666,537.8697	
<b>Easting (SFT)</b>	781,843.6732	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	58	31.6138454
<b>Scale Factor</b>	0.999943513		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    TXCR Ref Mon # 2    ARHP Ref Mon # 3    ARCM	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12A

**Latitude**    33    37    39.5479632

**Longitude**    93    44    34.2045348

**Ellipsoid Height (M):**    63.666    0.0016

**Geoid Height (M):**    -27.026    0.0016

  

**Location Description**

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.65 MILES TO THE MARK ON THE RIGHT, NORTH 7.5 FEET OF THE EDGE OF THE ASPHALT AND SOUTH 21 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	290025
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290025A	<b>Date Monumented</b> 5/19/2015	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 40	<b>Job Number:</b> BB0305
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	508,036.9942	0.0030			
<b>Easting (M)</b>	238,892.6222	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,666,784.7051				
<b>Easting (SFT)</b>	783,766.8780				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	58	18.9132140
<b>Scale Factor</b>	0.999943419		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	173	43.00	141.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 TXCR	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33 37 42.3130080
<b>Longitude</b>	93 44 11.5123020
<b>Ellipsoid Height (M):</b>	62.290 0.0013
<b>Geoid Height (M):</b>	-27.025 0.0013

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.3 MILES TO THE MARK ON THE LEFT, SOUTH 18 FEET OF THE EDGE OF THE ASPHALT AND NORTH 38 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290026	<b>Date Monumented</b> 5/19/2015	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 40	<b>Job Number:</b> BB0305
--------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	507,215.7771	0.0030			
<b>Easting (M)</b>	234,115.9054	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,664,090.4287				
<b>Easting (SFT)</b>	768,095.2663				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	0	2.3212095
<b>Scale Factor</b>	0.999944429		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	131	83.20	273.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 TXCR	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33 37 12.9923004
<b>Longitude</b>	93 47 16.2714876
<b>Ellipsoid Height (M):</b>	55.401 0.0031
<b>Geoid Height (M):</b>	-27.035 0.0031

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 11.25 MILES TO THE MARK ON THE LEFT, IN THE MEDIAN, 13 FEET SOUTH OF THE EDGE OF THE ASPHALT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290026" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 290026A	<b>Date Monumented</b> 5/19/2015	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> I 40	<b>Job Number:</b> BB0305
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	507,290.8117	0.0030	
<b>Easting (M)</b>	234,559.3400	0.0030	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	1,664,336.6047	
<b>Easting (SFT)</b>	769,550.1013	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	52.7219599
<b>Scale Factor</b>	0.999944335		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 67 OVERPASS (EXIT 18), EAST OF FULTON, GO EAST ON I 40 FOR 1.2 MILES TO THE MARK ON THE RIGHT, SOUTH 14.5 FEET OF THE EDGE OF THE ASPHALT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290026A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS LINE VENT	129	79.50	260.8
<b>MK # 2</b>	GAS LINE VENT	169	57.50	188.6
<b>MK # 3</b>				

<b>AZ Mark Station</b>	290026
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> TXCR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 3 SEM 1968	<b>Date Monumented</b> 3/1/1968	<b>Monumented By</b> USC & GS	<b>County</b> BENTON	<b>Route</b> 16	<b>Job Number:</b> 090282
------------------------------	------------------------------------	----------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	202,619.4879	
<b>Easting (M)</b>	177,136.8080	
<b>Elevation (M)*</b>	339.107	
<b>Northing (SFT)</b>	664,760.7699	
<b>Easting (SFT)</b>	581,156.3442	
<b>Elevation (SFT)*</b>	1,112.552	

  

<b>Convergence Angle</b>	-1	26	27.3933084
<b>Scale Factor</b>	0.999981940		
<b>Elevation Adjust. Factor</b>	0.9999467860		
<b>Combined Adjust. Factor</b>	0.9999287269		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S/E END OF AN 18" CMP	338	31.33	102.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 OKTU	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010
Ref Mon # 2 WWED	
Ref Mon # 3 CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300001	<b>Date Monumented</b> 6/10/1999	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 67	<b>Job Number:</b> IAR605
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	588,650.3489				
<b>Easting (M)</b>	325,025.9000				
<b>Elevation (M)*</b>	84.954				
<b>Northing (SFT)</b>	1,931,263.6863				
<b>Easting (SFT)</b>	1,066,355.8069				
<b>Elevation (SFT)*</b>	278.720				

  

<b>Convergence Angle</b>	0	27	22.3428192
<b>Scale Factor</b>	0.999935047		
<b>Elevation Adjust. Factor</b>	0.9999866681		
<b>Combined Adjust. Factor</b>	0.9999217160		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FRIST STREET, TURN RIGHT, NORTHEAST ON FRIST STREET FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.20 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 11.32 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD MILE MARKER SIGN 389	252	21.11	69.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> AP 1970 STA A3 HOT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300001A	<b>Date Monumented</b> 6/10/1999	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 67	<b>Job Number:</b> IAR605
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	588,359.4299				
<b>Easting (M)</b>	324,715.6240				
<b>Elevation (M)*</b>	83.529				
<b>Northing (SFT)</b>	1,930,309.2296				
<b>Easting (SFT)</b>	1,065,337.8431				
<b>Elevation (SFT)*</b>	274.045				

  

<b>Convergence Angle</b>	0	27	29.0883227
<b>Scale Factor</b>	0.999934782		
<b>Elevation Adjust. Factor</b>	0.9999868917		
<b>Combined Adjust. Factor</b>	0.9999216746		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FIRST STREET AND THE STATION ON THE LEFT. THE STATION IS 17.50 METERS SOUTHWEST OF THE EXTENDED CENTER OF PECAN STREET, 12.90 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 8.70 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    </p> <p>Ref Mon # 3    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300002	<b>Date Monumented</b> 2/18/2000	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 70	<b>Job Number:</b> 060900, 061243, 061611
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	593,578.6697 0.0010
<b>Easting (M)</b>	324,486.7627 0.0010
<b>Elevation (M)*</b>	103.686
<b>Northing (SFT)</b>	1,947,432.6855
<b>Easting (SFT)</b>	1,064,586.9873
<b>Elevation (SFT)*</b>	340.176

  

<b>Convergence Angle</b>	0 27 35.0185748
<b>Scale Factor</b>	0.999939803
<b>Elevation Adjust. Factor</b>	0.9999837286
<b>Combined Adjust. Factor</b>	0.9999235325

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	24	33.2944200
<b>Longitude</b>	92	49	17.0246532
<b>Ellipsoid Height:</b>	77.328		
<b>Grid Northing (Meters)</b>	593,578.6669		
<b>Grid Easting (Meters)</b>	324,486.7360		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.43 KM (0.89 MI) TO THE JUNCTION OF STATE HIGHWAY 51 AND THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS EAST OF THE 270 WEST BOUND LANE, 17.70 METERS WEST OF THE CENTER OF A PAVED ROAD, 8.75 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	<p>Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.</p> <p style="text-align: center;">SUPERCEDED</p> <p>GEOID HT. -26.390m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT</p>
Ref Mon # 2: ARLR	
Ref Mon # 3: ARPB, ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300002A	<b>Date Monumented</b> 11/18/2000	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 70	<b>Job Number:</b> 060900, 061243, 061611
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	593,269.3443 0.0010
<b>Easting (M)</b>	324,362.6161 0.0010
<b>Elevation (M)*</b>	104.469
<b>Northing (SFT)</b>	1,946,417.8404
<b>Easting (SFT)</b>	1,064,179.6830
<b>Elevation (SFT)*</b>	342.745

  

<b>Convergence Angle</b>	0 27 37.6848862
<b>Scale Factor</b>	0.999939486
<b>Elevation Adjust. Factor</b>	0.9999836057
<b>Combined Adjust. Factor</b>	0.9999230927

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	24	23.2232364
<b>Longitude</b>	92	49	21.7884936
<b>Ellipsoid Height:</b>	78.118		
<b>Grid Northing (Meters)</b>	593,269.3408		
<b>Grid Easting (Meters)</b>	324,362.5910		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.10 KM (0.68 MI) TO THE STATION ON THE RIGHT. THE STATION IS 47.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, 24.50 METERS SOUTH OF THE CENTER OF A PAEVED ROAD, 6.40 METERS SOUTHEAST OF THE CENTER OF A CONCRETE DITCH AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002A 2000" SET ON TOP OF AN IRON ROD 0.61METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	<p>Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.</p> <p style="text-align: center;">SUPERCEDED</p> <p>GEOID HT. -26.391m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT</p>
Ref Mon # 2: ARLR	
Ref Mon # 3: ARPB, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300003	<b>Date Monumented</b> 2/18/2000	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> CR 75	<b>Job Number:</b> 060900
--------------------------	-------------------------------------	------------------------------	-----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	593,951.1619	
<b>Easting (M)</b>	328,903.8530	
<b>Elevation (M)*</b>	94.799	
<b>Northing (SFT)</b>	1,948,654.7703	
<b>Easting (SFT)</b>	1,079,078.7244	
<b>Elevation (SFT)*</b>	311.020	

  

<b>Convergence Angle</b>	0	25	58.2749735
<b>Scale Factor</b>	0.999940223		
<b>Elevation Adjust. Factor</b>	0.9999851232		
<b>Combined Adjust. Factor</b>	0.9999253471		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTH ON U.S. HIGHWAY 270 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF MILITARY ROAD ON THE LEFT, GO LEFT, EAST, ON MILITARY ROAD FOR 0.77 KM (0.48 MI) TO THE JUNCTION OF NIX ROAD STRAIGHT AHEAD, CONTINUE EAST ON NIX ROAD FOR 1.48 KM (0.92 MI) TO THE "T" JUNCTION OF SAND ROAD, GO LEFT, NORTH, ON SAND ROAD FOR 4.18 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.25 METERS NORTH OF THE CENTER OF SAND ROAD, 1.11 METERS SOUTH OF A FENCE LINE AND 0.93 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300003 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 247.219 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSSTIE GATE POST	65	6.22	20.4
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LR 1</p> <p>Ref Mon # 3    AP 1970 STA A3 HOT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300003A	<b>Date Monumented</b> 2/18/2000	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> CR 75	<b>Job Number:</b> 060900
---------------------------	-------------------------------------	------------------------------	-----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	594,162.3549	
<b>Easting (M)</b>	329,032.3320	
<b>Elevation (M)*</b>	89.615	
<b>Northing (SFT)</b>	1,949,347.6594	
<b>Easting (SFT)</b>	1,079,500.2426	
<b>Elevation (SFT)*</b>	294.012	

  

<b>Convergence Angle</b>	0	25	55.4940030
<b>Scale Factor</b>	0.999940444		
<b>Elevation Adjust. Factor</b>	0.9999859367		
<b>Combined Adjust. Factor</b>	0.9999263815		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTH ON U.S. HIGHWAY 270 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF MILITARY ROAD ON THE LEFT, GO LEFT, EAST, ON MILITARY ROAD FOR 0.77 KM (0.48 MI) TO THE JUNCTION OF NIX ROAD STRAIGHT AHEAD, CONTINUE EAST ON NIX ROAD FOR 1.48 KM (0.92 MI) TO THE "T" JUNCTION OF SAND ROAD, GO LEFT, NORTH, ON SAND ROAD FOR 4.34 KM 2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.20 METERS WEST OF THE CENTER OF SAND ROAD, 2.60 METERS EAST OF A FENCE LINE AND 2.35 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300003A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 247.219 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LR 1</p> <p>Ref Mon # 3    AP 1970 STA A3 HOT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300004A	<b>Date Monumented</b> 2/18/2000	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 67	<b>Job Number:</b> 060900
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	588,556.9279				
<b>Easting (M)</b>	329,153.0980				
<b>Elevation (M)*</b>	102.151				
<b>Northing (SFT)</b>	1,930,957.1876				
<b>Easting (SFT)</b>	1,079,896.4557				
<b>Elevation (SFT)*</b>	335.140				

  

<b>Convergence Angle</b>	0	25	51.9227276
<b>Scale Factor</b>	0.999934991		
<b>Elevation Adjust. Factor</b>	0.9999839694		
<b>Combined Adjust. Factor</b>	0.9999189615		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	281	6.76	22.2
<b>MK # 2</b>	GUY POLE	257	15.03	49.3
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> K 124	Elev. Based on 3WR Levels from a single 2nd Order NGS Mark C 79 by S5105 in March of 2000 for Job #060900. *Note: Did not tie C 79 to any other NGS Marks for a check.
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> AP 1970 STA A3 HOT	

  

<b>Vertical Determined By:</b> 2nd Order - NGS	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 21 51.4955664
<b>Longitude</b>	92 46 12.8221392
<b>Ellipsoid Height (M):</b>	75.825
<b>Geoid Height (M):</b>	-26.327

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND U.S. HIGHWAY 67, LOCATED ON THE SOUTHEAST SIDE OF MALVERN, GO WEST ON U.S. HIGHWAY 270 AND U.S. HIGHWAY 67 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.40 METERS SOUTH OF THE CENTER OF THE U.S. HIGHWAYS 270 AND 67 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300004A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 406.551 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300005	<b>Date Monumented</b> 4/5/2001	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 30	<b>Job Number:</b> 060938, 061243, 061611
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	591,512.7637 0.0010
<b>Easting (M)</b>	322,875.5740 0.0010
<b>Elevation (M)*</b>	82.609
<b>Northing (SFT)</b>	1,940,654.7922
<b>Easting (SFT)</b>	1,059,300.9457
<b>Elevation (SFT)*</b>	271.026

  

<b>Convergence Angle</b>	0 28 9.9583615
<b>Scale Factor</b>	0.999937722
<b>Elevation Adjust. Factor</b>	0.9999870361
<b>Combined Adjust. Factor</b>	0.9999247589

  

SUPERCEDDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	23	25.8246348
<b>Longitude</b>	92	50	19.4504100
<b>Ellipsoid Height:</b>	56.259		
<b>Grid Northing (Meters)</b>	591,512.7907		
<b>Grid Easting (Meters)</b>	322,875.5782		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE GUARD RAIL POST	305	6.65	21.8
MK # 2	CONCRETE GUARD RAIL POST	165	7.65	25.1
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDDED GEOID HT. -26.414m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT
Ref Mon # 2: ARLR	
Ref Mon # 3: ARPB, ARRV	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 23 25.8237600
<b>Longitude</b>	92 50 19.4505666
<b>Ellipsoid Height (M):</b>	56.125 0.0070
<b>Geoid Height (M):</b>	-26.514 0.0070

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 1.26 KM (0.78 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN AT THE NORTH END OF A BRIDGE. THE STATION IS 18.35 METERS WEST OF THE CENTER OF THE EAST BOUND LANE OF I-30, 12.30 METERS EAST OF THE CENTER OF THE WEST BOUND LANE OF I-30 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.</p>

<b>AZ Mark Station</b>	300005A
<b>Geodetic Azimuth</b>	55 13 30.722108
<b>Grid Azimuth</b>	55 41 40.728595

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300005A	<b>Date Monumented</b> 4/5/2001	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 30	<b>Job Number:</b> 060938, 061611
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas South	302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	591,840.6522	0.0010			
<b>Easting (M)</b>	323,356.1517	0.0010			
<b>Elevation (M)*</b>	84.560				
<b>Northing (SFT)</b>	1,941,730.5398				
<b>Easting (SFT)</b>	1,060,877.6410				
<b>Elevation (SFT)*</b>	277.428				

  

<b>Convergence Angle</b>	0	27	59.4868585
<b>Scale Factor</b>	0.999938047		
<b>Elevation Adjust. Factor</b>	0.9999867299		
<b>Combined Adjust. Factor</b>	0.9999247777		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	23	36.5933148
<b>Longitude</b>	92	50	0.7412640
<b>Ellipsoid Height:</b>	58.200		
<b>Grid Northing (Meters)</b>	591,840.6792		
<b>Grid Easting (Meters)</b>	323,356.1483		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS EAST 13.30 METERS WEST OF THE CENTER OF I-30 EAST BOUND LANE, 12.25 METERS EAST OF THE CENTER OF I-30 WEST BOUND LANE AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	<p>Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.</p> <p>SUPERCEDED GEOID HT. -26.406m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT</p>
Ref Mon # 2: ARLR	
Ref Mon # 3: ARPB, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300006	<b>Date Monumented</b> 1/9/2003	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 67	<b>Job Number:</b> 061084
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	574,356.3669	
<b>Easting (M)</b>	313,888.4140	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,884,367.5137	
<b>Easting (SFT)</b>	1,029,815.5716	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	23.4429256
<b>Scale Factor</b>	0.999924583		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PIPE GATE POST	358	17.00	55.8
<b>MK # 2</b>	PIPE GATE POST	25	21.10	69.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1	
<b>Ref Mon # 2</b> AHTD MON 1	
<b>Ref Mon # 3</b> RUSSPORT, LROC	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    34    14    6.4947264

**Longitude**    92    56    5.1496620

**Ellipsoid Height (M):**    40.298

**Geoid Height (M):**    -26.602

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 67, 7.80 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300006A	<b>Date Monumented</b> 1/9/2003	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 67	<b>Job Number:</b> 061084
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	574,282.1129	
<b>Easting (M)</b>	313,357.7590	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,884,123.8987	
<b>Easting (SFT)</b>	1,028,074.5810	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	35.0339026
<b>Scale Factor</b>	0.999924540		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	170	10.80	35.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 RUSSPORT, LROC	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 14 3.9270660
<b>Longitude</b>	92 56 25.8592740
<b>Ellipsoid Height (M):</b>	40.154
<b>Geoid Height (M):</b>	-26.610

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.82 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 67 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300007	<b>Date Monumented</b> 8/18/2011	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 7	<b>Job Number:</b> 061309,060432,061440
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - digital
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 09		<b>Latitude</b> 34 23 19.6033308
<b>Northing (M)</b> 591,569.5307	<b>0.0000</b>	<b>Longitude</b> 93 7 15.5397036
<b>Easting (M)</b> 296,920.8883	<b>0.0000</b>	<b>Ellipsoid Height (M):</b> 137.371 0.0000
<b>Elevation (M)*</b> 164.507		<b>Geoid Height (M):</b> -27.122 0.0000

  

<b>Northing (SFT)</b> 1,940,841.0353		
<b>Easting (SFT)</b> 974,147.9477		
<b>Elevation (SFT)*</b> 539.719		

  

<b>Convergence Angle</b> 0 37 38.6539884		
<b>Scale Factor</b> 0.999937535		
<b>Elevation Adjust. Factor</b> 0.9999741842		
<b>Combined Adjust. Factor</b> 0.9999117208		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290 , SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 2.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 65.4 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300007 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	170	12.04	39.5
<b>MK # 2</b>	CENTER OF PIPE GATE	30	23.62	77.5
<b>MK # 3</b>	4" PVC PIPE IN FENCE	240	9.54	31.3

  

<b>AZ Mark Station</b>	260030
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300008	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 590,323.6176	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 293,348.0294	<b>0.0020</b>	<b>Latitude</b> 34 22 37.8778944
<b>Elevation (M)*</b> 201.514		<b>Longitude</b> 93 9 34.8525576
<b>Northing (SFT)</b> 1,936,753.4021		<b>Ellipsoid Height (M):</b> 174.324 0.0040
<b>Easting (SFT)</b> 962,425.9931		<b>Geoid Height (M):</b> -27.181 0.0040
<b>Elevation (SFT)*</b> 661.135		

  

<b>Convergence Angle</b> 0 38 56.6260954	<b>Location Description</b>  FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.1 MILES TO THE MARK ON THE RIGHT, NORTH 57 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 0.999936308	
<b>Elevation Adjust. Factor</b> 0.9999683768	
<b>Combined Adjust. Factor</b> 0.9999046868	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 & AHTD GPS #S 260030 & 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300008A	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	590,274.8146	0.0020			
<b>Easting (M)</b>	292,687.5895	0.0020			
<b>Elevation (M)*</b>	223.309				
<b>Northing (SFT)</b>	1,936,593.2876				
<b>Easting (SFT)</b>	960,259.1999				
<b>Elevation (SFT)*</b>	732.641				

  

<b>Convergence Angle</b>	0	39	11.0821643
<b>Scale Factor</b>	0.999936255		
<b>Elevation Adjust. Factor</b>	0.9999649567		
<b>Combined Adjust. Factor</b>	0.9999012140		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.5 MILES TO THE MARK ON THE RIGHT, NORTH 22.7 FEET OF THE EDGE OF THE PAVEMENT AND SOUTH 20.1 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARHP</p> <p>Ref Mon # 3    ARCM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED BY B&amp;F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 &amp; AHTD GPS #S 260030 &amp; 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300009	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	585,817.6046	0.0020	
<b>Easting (M)</b>	291,495.6216	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,921,969.9244		
<b>Easting (SFT)</b>	956,348.5519		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	39	36.0695533
<b>Scale Factor</b>	0.999932311		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	

  

**Vertical Determined By:**    GPS - Unknown Quality

**Elevation Datum:**    NAVD 88

**Geoid Datum:**    Geoid 12A

**Latitude**    34    20    10.9563252

**Longitude**    93    10    45.3262296

**Ellipsoid Height (M):**    142.252    0.0050

**Geoid Height (M):**    -27.160    0.0050

  

**Location Description**

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 9.7 MILES TO THE MARK ON THE LEFT, EAST 23 FEET OF THE CENTERLINE OF THE HIGHWAY AND 250 FEET NORTH OF THE CENTERLINE OF TOMAHAWK LANE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300009A	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	585,327.6188	0.0030	
<b>Easting (M)</b>	291,778.0604	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,920,362.3627		
<b>Easting (SFT)</b>	957,275.1865		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	39	29.7618786
<b>Scale Factor</b>	0.999931911		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	

  

**Vertical Determined By:**    GPS - Unknown Quality

**Elevation Datum:**    NAVD 88

**Geoid Datum:**    Geoid 12A

**Latitude**    34    19    55.1600688

**Longitude**    93    10    34.0563000

**Ellipsoid Height (M):**    146.817    0.0050

**Geoid Height (M):**    -27.149    0.0050

  

**Location Description**

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 10 MILES TO THE MARK ON THE RIGHT, WEST 24.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 15 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	300009
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300010	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	581,822.6576	0.0020			
<b>Easting (M)</b>	292,796.3929	0.0020			
<b>Elevation (M)*</b>	157.399				
<b>Northing (SFT)</b>	1,908,863.1691				
<b>Easting (SFT)</b>	960,616.1657				
<b>Elevation (SFT)*</b>	516.401				

  

<b>Convergence Angle</b>	0	39	6.5920362
<b>Scale Factor</b>	0.999929215		
<b>Elevation Adjust. Factor</b>	0.9999752995		
<b>Combined Adjust. Factor</b>	0.9999045163		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	319	98.40	322.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARLR"/>	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 2 <input type="text" value="ARHP"/>	
Ref Mon # 3 <input type="text" value="ARCM"/>	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 18 1.7893656
<b>Longitude</b>	93 9 52.6587156
<b>Ellipsoid Height (M):</b>	130.308 0.0050
<b>Geoid Height (M):</b>	-27.087 0.0050

Location Description
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARCK, GO SOUTH ON HIGHWAY 7 FOR 1.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300010A	<b>Date Monumented</b> 9/29/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	581,155.9433	0.0020			
<b>Easting (M)</b>	293,008.1166	0.0020			
<b>Elevation (M)*</b>	148.821				
<b>Northing (SFT)</b>	1,906,675.7906				
<b>Easting (SFT)</b>	961,310.7959				
<b>Elevation (SFT)*</b>	488.258				

  

<b>Convergence Angle</b>	0	39	1.7923086
<b>Scale Factor</b>	0.999928737		
<b>Elevation Adjust. Factor</b>	0.9999766456		
<b>Combined Adjust. Factor</b>	0.9999053843		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	281	14.00	45.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 2: ARHP	
Ref Mon # 3: ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300011	<b>Date Monumented</b> 9/30/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 578,245.1693	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 294,661.6804	<b>0.0020</b>	<b>Latitude</b> 34 16 6.3685416
<b>Elevation (M)*</b> 141.574		<b>Longitude</b> 93 8 38.1513588
<b>Northing (SFT)</b> 1,897,126.0263		<b>Ellipsoid Height (M):</b> 114.567 0.0040
<b>Easting (SFT)</b> 966,735.8631		<b>Geoid Height (M):</b> -27.015 0.0040
<b>Elevation (SFT)*</b> 464.479		

  

<b>Convergence Angle</b> 0 38 24.8909625	<b>Scale Factor</b> 0.999926781	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999777830	<b>Combined Adjust. Factor</b> 0.9999045656	FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARCK, GO SOUTH ON HIGHWAY 7 FOR 3.9 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 68 FEET OF THE CENTERLINE OF CADDO DRIVE AND EAST 45.5 OF THE SOUTHEAST CORNER OF A ONE STORY WOOD FRAME HOUSE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b> 300011A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	<b>Comments</b> ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300011A	<b>Date Monumented</b> 9/30/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440, 012275
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	577,953.8205	0.0030			
<b>Easting (M)</b>	295,169.8235	0.0020			
<b>Elevation (M)*</b>	146.543				
<b>Northing (SFT)</b>	1,896,170.1594				
<b>Easting (SFT)</b>	968,402.9959				
<b>Elevation (SFT)*</b>	480.782				

  

<b>Convergence Angle</b>	0	38	13.7023966
<b>Scale Factor</b>	0.999926599		
<b>Elevation Adjust. Factor</b>	0.9999770032		
<b>Combined Adjust. Factor</b>	0.9999036039		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	294	118.00	387.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 2: ARHP	
Ref Mon # 3: ARCM	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 15 57.0969252
<b>Longitude</b>	93 8 18.1607352
<b>Ellipsoid Height (M):</b>	119.529 0.0050
<b>Geoid Height (M):</b>	-27.002 0.0050

Location Description
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARCK, GO SOUTH ON HIGHWAY 7 FOR 4.3 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 18.7 FEET OF THE CENTERLINE OF THE HIGHWAY, 124 FEET NORTHWEST OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300011A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300012	<b>Date Monumented</b> 9/30/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	575,967.3040	0.0020	
<b>Easting (M)</b>	297,278.6193	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,889,652.7299		
<b>Easting (SFT)</b>	975,321.6035		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	37	27.0917659
<b>Scale Factor</b>	0.999925402		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF EAST END OF HEADWALL	289	73.00	239.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	

  

<b>Location Description</b>	
FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 6.3 MILES TO THE MARK ON THE RIGHT, SOUTH 26 FEET OF THE EDGE OF THE PAVEMENT AND SOUTH 1.65 FEET OF A WITNESS POST AND NORTH 15.2 FEET OF THE CENTERLINE OF A UNNAMED STATE PARK ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	300012A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300012A	<b>Date Monumented</b> 9/30/2014	<b>Monumented By</b> AHTD	<b>County</b> Hot Spring	<b>Route</b> 7	<b>Job Number:</b> 061440
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	575,967.5423 0.0020
<b>Easting (M)</b>	296,579.2718 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,889,653.5117	
<b>Easting (SFT)</b>	973,027.1609	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	42.3892474
<b>Scale Factor</b>	0.999925398		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCM</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHP	Ref Mon # 3	ARCM	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARHP						
Ref Mon # 3	ARCM						

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:** Geoid 12A

**Latitude** 34 14 53.1390912

**Longitude** 93 7 22.2134952

**Ellipsoid Height (M):** 111.354 0.0050

**Geoid Height (M):** -26.957 0.0050

  

**Location Description**

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARCK, GO SOUTH ON HIGHWAY 7 FOR 6.3 MILES AND THEN RIGHT 0.4 MILES ON EDGEWOOD CADDO DRIVE TO THE MARK ON THE LEFT, SOUTH 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.75 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300012A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300013	<b>Date Monumented</b> 2/26/2015	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> I 40	<b>Job Number:</b> 061450, 061460
--------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	587,157.6164	0.0020
<b>Easting (M)</b>	317,874.9673	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,926,366.2798	
<b>Easting (SFT)</b>	1,042,894.7886	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	58.6946185
<b>Scale Factor</b>	0.999933671		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW CORNER REST ROOM BLDGING	94	190.00	623.4
<b>MK # 2</b>	ABOVE GROUND WATER SPIGOT	172	115.00	377.3
<b>MK # 3</b>	LIGHT POLE	11	101.00	331.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.6 MILES TO THE REST AREA AND ENTER REST AREA ON LEFT AND CONTINUE IN THE TRUCK LANE NEXT TO THE GUARD RAIL TO THE MARK ON THE LEFT IN A GRASSEY MEDIUM, 2.0 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	300013A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300013A	<b>Date Monumented</b> 2/26/2015	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> I 40	<b>Job Number:</b> 061450, 061460
---------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	586,880.0869	0.0020			
<b>Easting (M)</b>	317,490.3412	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,925,455.7518				
<b>Easting (SFT)</b>	1,041,632.8944				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	30	7.0649827
<b>Scale Factor</b>	0.999933429		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF OVERPASS	185	8.00	26.2
MK # 2	NORTH END OF PARAPET WALL	309	14.10	46.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR Ref Mon # 2    ARHP Ref Mon # 3    ARCM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM &amp; ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.</td> </tr> </table>	Comments	GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.
Comments			
GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.9 MILES TO THE MARK ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE OVERPASS, 2.7 FEET NORTHEAST OF A WITNESS POST, NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 1586 (GRIGSBY FORD ROAD). THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	300013
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300014	<b>Date Monumented</b> 3/15/2016	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 171	<b>Job Number:</b> 061456
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	593,865.7551	0.0020			
<b>Easting (M)</b>	316,528.7644	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,948,374.5649				
<b>Easting (SFT)</b>	1,038,478.1212				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	30	29.4805867
<b>Scale Factor</b>	0.999940030		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WESTERN MOST GATE POST	313	13.59	44.6
<b>MK # 2</b>	TELEPHONE POLE	33	15.54	51.0
<b>MK # 3</b>	CENTER OF NORTH HEADWALL	86	32.61	107.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARPB	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34   24   40.4299692
<b>Longitude</b>	92   54   28.7350884
<b>Ellipsoid Height (M):</b>	100.171   0.0050
<b>Geoid Height (M):</b>	-26.633   0.0050

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 3.3 MILES TO THE MARK ON THE LEFT, NORTH 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300014A	<b>Date Monumented</b> 3/15/2016	<b>Monumented By</b> AHTD	<b>County</b> HOT SPRING	<b>Route</b> 171	<b>Job Number:</b> 061456
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	593,879.9170	0.0020			
<b>Easting (M)</b>	315,970.5857	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,948,421.0277				
<b>Easting (SFT)</b>	1,036,646.8299				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	30	41.7165893
<b>Scale Factor</b>	0.999940039		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE WITH GUY	38	8.08	26.5
<b>MK # 2</b>	FIRE HYDRANT	53	0.97	3.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARPB	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34    24    40.7283624
<b>Longitude</b>	92    54    50.5971684
<b>Ellipsoid Height (M):</b>	106.112    0.0050
<b>Geoid Height (M):</b>	-26.648    0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 2.95 MILES TO THE MARK ON THE LEFT, NORTH 20.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND IN LINE WITH THE CENTERLINE EXTENDED NORTH OF HILLTOP ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300015	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> HOT SPRING	<b>Route</b> 84	<b>Job Number:</b> 06X174
--------------------------	--------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	590,104.2008	0.0030			
<b>Easting (M)</b>	321,452.5390	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,936,033.5321				
<b>Easting (SFT)</b>	1,054,632.2050				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	28	40.8811173
<b>Scale Factor</b>	0.999936361		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIBER OPTIC MKR	172	24.05	78.9
<b>MK # 2</b>	AHTD SEWER MKR	164	21.43	70.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARGS"/> <b>Ref Mon # 2</b> <input type="text" value="ARLR"/> <b>Ref Mon # 3</b> <input type="text" value="ARRV"/>	

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 22 39.7283664
<b>Longitude</b>	92 51 14.7002904
<b>Ellipsoid Height (M):</b>	59.860 0.0130
<b>Geoid Height (M):</b>	-26.540 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 AND STATE HIGHWAY 171, WEST OF ROCKPORT, GO WEST ON STATE HIGHWAY 84 0.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 32.7' OF THE C/L OF THE HIGHWAY AND 35.4' NORTHEAST OF A DIRT TRAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "300015 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300015A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> HOT SPRING	<b>Route</b> 84	<b>Job Number:</b> 06X174
---------------------------	--------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	589,698.9295	0.0030			
<b>Easting (M)</b>	321,156.9593	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,934,703.9045				
<b>Easting (SFT)</b>	1,053,662.4573				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	28	47.2822605
<b>Scale Factor</b>	0.999935980		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	42	26.12	85.7
MK # 2	BRACE POST	206	13.23	43.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARGS	
Ref Mon # 2: ARLR	
Ref Mon # 3: ARR V	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 22 26.4954792
<b>Longitude</b>	92 51 26.1372204
<b>Ellipsoid Height (M):</b>	56.415 0.0130
<b>Geoid Height (M):</b>	-26.547 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 AND STATE HIGHWAY 171, WEST OF ROCKPORT, GO WEST ON STATE HIGHWAY 84 1 MILE TO THE MARK ON THE LEFT, SOUTHEAST 15.5' OF THE C/L OF THE HIGHWAY AND 5.2' NORTHWEST OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "300015A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310001	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	522,578.3261	
<b>Easting (M)</b>	228,213.0940	
<b>Elevation (M)*</b>	116.176	
<b>Northing (SFT)</b>	1,714,492.3915	
<b>Easting (SFT)</b>	748,729.1259	
<b>Elevation (SFT)*</b>	381.154	

  

<b>Convergence Angle</b>	-1	2	16.5212804
<b>Scale Factor</b>	0.999930055		
<b>Elevation Adjust. Factor</b>	0.9999817685		
<b>Combined Adjust. Factor</b>	0.9999118248		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.77 KM. (2.35 MI.) TO THE STATION ON THE LEFT. 11.20 METERS SOUTHEAST OF THE CENTER OF HWY-73 AND 1.30 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	232	31.30	102.7
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    HOPEPORT</p> <p><b>Ref Mon # 2</b>    X 303 BM</p> <p><b>Ref Mon # 3</b>    PATE 1941</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 30088</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310001A	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 73	<b>Job Number:</b> 30056
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	522,888.6661	
<b>Easting (M)</b>	228,708.8780	
<b>Elevation (M)*</b>	120.485	
<b>Northing (SFT)</b>	1,715,510.5654	
<b>Easting (SFT)</b>	750,355.7106	
<b>Elevation (SFT)*</b>	395.291	

  

<b>Convergence Angle</b>	-1	2	5.8617955
<b>Scale Factor</b>	0.999929815		
<b>Elevation Adjust. Factor</b>	0.9999810923		
<b>Combined Adjust. Factor</b>	0.9999109087		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.21 KM. (2.00 MI.) TO THE STATION ON THE LEFT. 11.75 METERS SOUTHEAST OF THE CENTER OF HWY-73, 3.0 METERS NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 1.50 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER AND GATE POST	159	1.75	5.7
MK # 2	FENCE CORNER AND GATE POST	215	5.55	18.2
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HOPEPORT</p> <p>Ref Mon # 2    X 303 BM</p> <p>Ref Mon # 3    PATE 1941</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 30088</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310002	<b>Date Monumented</b> 4/2/1996	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 355	<b>Job Number:</b> 30056
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	522,525.6411				
<b>Easting (M)</b>	223,666.9920				
<b>Elevation (M)*</b>	116.352				
<b>Northing (SFT)</b>	1,714,319.5408				
<b>Easting (SFT)</b>	733,814.1229				
<b>Elevation (SFT)*</b>	381.732				

  

<b>Convergence Angle</b>	-1	3	55.3593280
<b>Scale Factor</b>	0.999930158		
<b>Elevation Adjust. Factor</b>	0.9999817409		
<b>Combined Adjust. Factor</b>	0.9999119002		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	168	25.82	84.7
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	SARATOGA AZ.
<b>Geodetic Azimuth</b>	187 08 03.90185
<b>Grid Azimuth</b>	188 11 59.26586

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THIS STATION WAS ARRIVED AT USING SARATOGA AZ.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310003	<b>Date Monumented</b> 8/22/2001	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 355	<b>Job Number:</b> 030239
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	540,556.2721	
<b>Easting (M)</b>	220,850.5540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,773,475.0360	
<b>Easting (SFT)</b>	724,573.8592	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	5	4.0261955
<b>Scale Factor</b>	0.999920500		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 355 AND 0.97 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	340	33.00	108.3
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 660015</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310003A	<b>Date Monumented</b> 8/22/2001	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 355	<b>Job Number:</b> 030239
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	540,022.9560	
<b>Easting (M)</b>	220,971.8880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,771,725.3148	
<b>Easting (SFT)</b>	724,971.9359	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	5	1.1629290
<b>Scale Factor</b>	0.999920671		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 355 AND 3.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003A 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    660015</p> <p>Ref Mon # 2    X 303</p> <p>Ref Mon # 3    AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310004	<b>Date Monumented</b> 7/28/2003	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 369	<b>Job Number:</b> 030285
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,285.8570	
<b>Easting (M)</b>	227,241.3850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,818,519.5158	
<b>Easting (SFT)</b>	745,541.1106	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	50.2570001
<b>Scale Factor</b>	0.999918482		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 369 AND STATE HIGHWAY 26, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, WEST OF MURFEESBORO AND EAST OF CENTER POINT, GO NORTH ON STATE HIGHWAY 369 FOR 0.29 MILES TO THE STATION ON THE LEFT, 11.5 METERS WEST OF THE CENTERLINE AND 0.70 METERS EAST OF A WITNESS POST AND SOUTH 4.40 METERS OF A GRAVEL FIELD ROAD. THE STATION IS A STANDARD 64mm CAP STAMPED "310004 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST FOR SOUTH END OF GAP G	340	2.30	7.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DQUA C.O.R.S.</p> <p>Ref Mon # 2    AHTD HOPE C.O.R.S.</p> <p>Ref Mon # 3    AHTD ARTX C.O.R.S.</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310004A	<b>Date Monumented</b> 7/28/2003	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 369	<b>Job Number:</b> 030285
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,682.2110	
<b>Easting (M)</b>	227,249.1200	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,816,539.0539	
<b>Easting (SFT)</b>	745,566.4879	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	49.8474805
<b>Scale Factor</b>	0.999918472		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAIL BOX 494	355	20.30	66.6
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	310004
<b>Geodetic Azimuth</b>	358 13 07
<b>Grid Azimuth</b>	359 15 57

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DQUA C.O.R.S.	
Ref Mon # 2 AHTD HOPE C.O.R.S.	
Ref Mon # 3 AHTD ARTX C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310005	<b>Date Monumented</b> 7/28/2003	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 26	<b>Job Number:</b> 030285
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,649.8360	
<b>Easting (M)</b>	229,922.6920	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,816,432.8369	
<b>Easting (SFT)</b>	754,338.0320	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	51.5035694
<b>Scale Factor</b>	0.999918472		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.25 MILES TO THE STATION ON THE RIGHT. WEST 9.5 METERS OF THE CENTER LINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DQUA C.O.R.S.</p> <p>Ref Mon # 2    AHTD HOPE C.O.R.S.</p> <p>Ref Mon # 3    AHTD ARTX C.O.R.S.</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310005A	<b>Date Monumented</b> 7/28/2003	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 26	<b>Job Number:</b> 030285
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,151.9470	
<b>Easting (M)</b>	229,960.0550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,814,799.3461	
<b>Easting (SFT)</b>	754,460.6138	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	50.4929608
<b>Scale Factor</b>	0.999918470		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	77	18.10	59.4
<b>MK # 2</b>	COMBINATION POLE	120	23.60	77.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DQUA C.O.R.S.	
<b>Ref Mon # 2</b> AHTD HOPE C.O.R.S.	
<b>Ref Mon # 3</b> AHTD ARTX C.O.R.S.	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 2 1.3817544
<b>Longitude</b>	93 50 29.5420812
<b>Ellipsoid Height (M):</b>	175.083
<b>Geoid Height (M):</b>	-27.258

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.55 MILES TO THE STATION ON THE RIGHT. WEST 8.4 METERS OF THE CENTER LINE AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005A 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310006	<b>Date Monumented</b> 7/13/2004	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 278	<b>Job Number:</b> R30050
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 543,504.3131		<b>Latitude</b> 33 56 48.1163748
<b>Easting (M)</b> 229,660.4310		<b>Longitude</b> 93 50 34.4506308
<b>Elevation (M)*</b> 114.703		<b>Ellipsoid Height (M):</b> 87.475
<b>Northing (SFT)</b> 1,783,147.0672		<b>Geoid Height (M):</b> -27.127
<b>Easting (SFT)</b> 753,477.5974		
<b>Elevation (SFT)*</b> 376.322		

  

<b>Convergence Angle</b> -1 1 53.2402303	<b>Location Description</b>
<b>Scale Factor</b> 0.999919635	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278, 371, AND 27, IN NASHVILLE. GO SOUTH ON HIGHWAY 278 FOR 0.10 MILES TO A PAVED ROAD ON THE RIGHT AND TURN RIGHT AND GO 78.3 METERS TO THE STATION ON THE RIGHT, 7.0 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 3.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310006 12004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999819997	
<b>Combined Adjust. Factor</b> 0.9999016361	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					310006A	
MK # 2					Geodetic Azimuth	12 33 10
MK # 3					Grid Azimuth	13 35 03

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> AHTD HOPE <b>Ref Mon # 2</b> LROC <b>Ref Mon # 3</b> DQUA	<b>Comments</b> 3-Wire elevations were ran from NGS B 61 in Job # R30050
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310006A	<b>Date Monumented</b> 7/13/2004	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 27N	<b>Job Number:</b> R30050
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	544,137.8991	
<b>Easting (M)</b>	229,813.5270	
<b>Elevation (M)*</b>	125.084	
<b>Northing (SFT)</b>	1,785,225.7573	
<b>Easting (SFT)</b>	753,979.8798	
<b>Elevation (SFT)*</b>	410.378	

  

<b>Convergence Angle</b>	-1	1	50.1520098
<b>Scale Factor</b>	0.999919488		
<b>Elevation Adjust. Factor</b>	0.9999803707		
<b>Combined Adjust. Factor</b>	0.9998998603		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	8	18.60	61.0
<b>MK # 2</b>	SIGN "CHAMBERS PRINT CO."	202	16.50	54.1
<b>MK # 3</b>	WATER METER	195	12.90	42.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="AHTD HOPE"/> <b>Ref Mon # 2</b> <input type="text" value="LROC"/> <b>Ref Mon # 3</b> <input type="text" value="DQUA"/>	3-Wire elevations were ran from NGS B 61 in Job # R30050

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310007	<b>Date Monumented</b> 2/1/2017	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 278	<b>Job Number:</b> 030457
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	573,435.4218	0.0020
<b>Easting (M)</b>	211,022.1767	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,881,346.0464	
<b>Easting (SFT)</b>	692,328.5914	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	8	52.5038260
<b>Scale Factor</b>	0.999923325		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	226	8.23	27.0
MK # 2	CORNER OF 4' CONCRETE RETAINING WAL	351	19.66	64.5
MK # 3	SOUTH END OF 24" CMP	129	4.11	13.5

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARLR Ref Mon # 3    OKHV, TXCR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP &amp; ARLR IN FINAL STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.
Comments			
GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 5.05 MILES TO THE MARK ON THE LEFT, EAST 32.6' OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 32' OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	310007A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 310007A	<b>Date Monumented</b> 2/1/2017	<b>Monumented By</b> AHTD	<b>County</b> HOWARD	<b>Route</b> 278	<b>Job Number:</b> 030457
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	572,849.7425	0.0020	
<b>Easting (M)</b>	211,043.5258	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,879,424.5302		
<b>Easting (SFT)</b>	692,398.6342		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	8	51.7805785
<b>Scale Factor</b>	0.999923043		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 36" RCP	247	7.62	25.0
MK # 2	POWER POLE WITH GUY	290	11.28	37.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    OKHV, TXCR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34   12   28.9284588
<b>Longitude</b>	94   3   2.2571568
<b>Ellipsoid Height (M):</b>	151.661   0.0090
<b>Geoid Height (M):</b>	-28.014   0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 4.7 MILES TO THE MARK ON THE LEFT, EAST 17.5' OF THE CENTERLINE OF THE HIGHWAY, NORTH 24' OF A FIELD ROAD AND 96' SOUTH OF THE CENTER OF A HEADWALL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	310007
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320001	<b>Date Monumented</b> 5/22/1990	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 5933
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 151,550.5170		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 421,643.2660		<b>Latitude</b> 35 41 56.8777740
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 45 39.0449124
<b>Northing (SFT)</b> 497,211.9879		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,383,341.2819		<b>Geoid Height (M):</b> -27.379
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 8 20.9890148	<b>Location Description</b>  THE STATION IS 37.5 FEET EAST OF THE CENTERLINE OF HWY. 25, 18 FEET SOUTH OF THE CENTERLINE OF A PRIVATE DRIVE AND 1.8 FEET WEST OF A WITNESS POST.
<b>Scale Factor</b> 0.999937938	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN 14" PINE	79	14.46	47.4	NONE
MK # 2	NBC IN 14" PINE	112	14.31	46.9	
MK # 3	NBC IN COMBINATION POLE	200	5.87	19.3	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	<b>Comments</b> DO NOT USE DATA FOR THIS STATION. Old point number 90320001
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320002	<b>Date Monumented</b> 5/22/1990	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 5933
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 151,664.6619		<b>Latitude</b> 35 42 0.5789268
<b>Easting (M)</b> 421,676.4500		<b>Longitude</b> 91 45 37.7138340
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b>
<b>Northing (SFT)</b> 497,586.4783		<b>Geoid Height (M):</b> -28.315
<b>Easting (SFT)</b> 1,383,450.1530		
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	8	21.7635681
<b>Scale Factor</b>	0.999937974		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 12" PINE	97		12.56	41.2
MK # 2	NBC IN 14" PINE	128		15.65	51.3
MK # 3	NBC IN 14" PINE	158		25.27	82.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMOND	DO NOT USE DATA FOR THIS STATION. Old point number 90320002
Ref Mon # 2 BATESVILLE	
Ref Mon # 3 SALADO	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320003	<b>Date Monumented</b> 5/22/1990	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 5933,050313
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	153,933.7340 0.0020
<b>Easting (M)</b>	423,583.3808 0.0020
<b>Elevation (M)*</b>	96.671

  

<b>Northing (SFT)</b>	505,030.9256	
<b>Easting (SFT)</b>	1,389,706.4752	
<b>Elevation (SFT)*</b>	317.161	

  

<b>Convergence Angle</b>	0	9	6.0437961
<b>Scale Factor</b>	0.999938756		
<b>Elevation Adjust. Factor</b>	0.9999848294		
<b>Combined Adjust. Factor</b>	0.9999235863		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	43	14.4583968
<b>Longitude</b>	91	44	20.2708572
<b>Ellipsoid Height:</b>	68.289		
<b>Grid Northing (Meters)</b>	153,946.4610		
<b>Grid Easting (Meters)</b>	423,617.1980		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	43	16.87	55.4
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ALMOND Ref Mon # 2    BATESVILLE Ref Mon # 3    SALADO	<div style="border: 1px solid black; padding: 5px;"> <b>Comments</b>                      ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014                 </div>
---	--

  

**Location Description**  
  
 THE STATION IS 31 FEET SOUTH OF HWY. 25 AND 310 FEET WEST OF THE JCT. OF HWY. 230 AND HWY. 25 NEAR THE WEST ENTRANCE OF CIRCLE DRIVE.

  

<b>AZ Mark Station</b>	NONE
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320004	<b>Date Monumented</b> 5/22/1990	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 5933,050313
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	153,919.9791 0.0030
<b>Easting (M)</b>	423,190.9098 0.0030
<b>Elevation (M)*</b>	104.110

  

<b>Northing (SFT)</b>	504,985.7981	
<b>Easting (SFT)</b>	1,388,418.8432	
<b>Elevation (SFT)*</b>	341.569	

  

<b>Convergence Angle</b>	0 8	56.9558302
<b>Scale Factor</b>	0.999938751	
<b>Elevation Adjust. Factor</b>	0.9999836620	
<b>Combined Adjust. Factor</b>	0.9999224140	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	35 43 14.0457936
<b>Longitude</b>	91 44 35.8932228
<b>Ellipsoid Height:</b>	75.729
<b>Grid Northing (Meters)</b>	153,932.7129
<b>Grid Easting (Meters)</b>	423,224.6120

  

**Location Description**

TURN LEFT JUST WEST OF BRIDGE AT LOG MILE 4.18 ONTO PRIVATE ROAD, THE STATION IS 0.1 MILES FROM HWY. 25, 8.5 FEET NORTH OF A GUY WIRE ANCHOR, 21 FEET EAST OF THE PRIVATE ROAD, 72 FEET WEST OF THE SPILLWAY OF A LARGE POND AND 0.2 FEET WEST OF WITNESS POST.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	129	5.69	18.7
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

<b>AZ Mark Station</b>	NONE
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> ALMOND</p> <p><b>Ref Mon # 2</b> BATESVILLE</p> <p><b>Ref Mon # 3</b> SALADO</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320006	<b>Date Monumented</b> 11/28/1994	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> R50017
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	153,407.2660	
<b>Easting (M)</b>	446,076.9020	
<b>Elevation (M)*</b>	86.332	
<b>Northing (SFT)</b>	503,303.6719	
<b>Easting (SFT)</b>	1,463,503.9693	
<b>Elevation (SFT)*</b>	283.241	

  

<b>Convergence Angle</b>	0	17	46.7831862
<b>Scale Factor</b>	0.999938531		
<b>Elevation Adjust. Factor</b>	0.9999864519		
<b>Combined Adjust. Factor</b>	0.9999249837		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" METAL DRAIN PIPE	305	10.60	34.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NEWSPORT 1990 <b>Ref Mon # 2</b> BATEPORT 1990 <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 42 54.1121688
<b>Longitude</b>	91 29 26.7214560
<b>Ellipsoid Height (M):</b>	57.984
<b>Geoid Height (M):</b>	-28.348

Location Description
FROM THE POST OFFICE IN THE SMALL TOWN OF MAGNESS, GO NORTH ON HWY. 69 FOR 1.802 KM (1.12 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.3 METERS WEST OF THE CENTER OF HWY. 69, 19.0 METERS NORTH OF THE CENTER OF LINDSAY ROAD, 9.70 METERS EAST OF THE EASTERN MOST RAIL OF THE EASTERN MOST TRACK AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	320006A
<b>Geodetic Azimuth</b>	355 56 09.56012
<b>Grid Azimuth</b>	355 38 22.7754

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320006A	<b>Date Monumented</b> 11/28/1994	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> R50017
---------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	153,977.9850	
<b>Easting (M)</b>	446,033.3850	
<b>Elevation (M)*</b>	87.506	
<b>Northing (SFT)</b>	505,176.1058	
<b>Easting (SFT)</b>	1,463,361.1973	
<b>Elevation (SFT)*</b>	287.093	

  

<b>Convergence Angle</b>	0	17	45.8439661
<b>Scale Factor</b>	0.999938740		
<b>Elevation Adjust. Factor</b>	0.9999862676		
<b>Combined Adjust. Factor</b>	0.9999250085		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE POST OFFICE IN THE SMALL TOWN OF MAGNESS, GO NORTH ON HWY. 69 FOR 2.365 KM (1.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.5 METERS WEST OF THE CENTER OF HWY. 69, 13.4 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND RAILROAD CROSSING, 7.5 METERS EAST OF THE EASTERN MOST RAIL OF THE RAILROAD TRACK AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	2" GAS LINE MARKER POST	135	11.50	37.7		320006
MK # 2	NONE					175 56 08.6178
MK # 3	NONE					175 38 22.7754

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT NOAA	
Ref Mon # 2 BATEPORT NOAA	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320007	<b>Date Monumented</b> 11/28/1994	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> R50017
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	156,841.1960				
<b>Easting (M)</b>	444,930.8020				
<b>Elevation (M)*</b>	93.790				
<b>Northing (SFT)</b>	514,569.8239				
<b>Easting (SFT)</b>	1,459,743.8062				
<b>Elevation (SFT)*</b>	307.709				

  

<b>Convergence Angle</b>	0	17	20.6499728
<b>Scale Factor</b>	0.999939908		
<b>Elevation Adjust. Factor</b>	0.9999852815		
<b>Combined Adjust. Factor</b>	0.9999251904		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4" FENCE BRACE POST	117	18.00	59.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT 1990	
<b>Ref Mon # 2</b> BATEPORT 1990	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    44    45.7243296
<b>Longitude</b>	91    30    11.6316684
<b>Ellipsoid Height (M):</b>	65.423
<b>Geoid Height (M):</b>	-28.367

Location Description
<p>FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 SPUR FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.289 KM (0.18 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.6 METERS NORTH OF THE CENTER OF HWY. 69, 20.15 METERS NORTHWEST OF AN AHTD RIGHT-OF-WAY MARKER AND 0.71 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320007A	<b>Date Monumented</b> 11/28/1994	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> R50017
---------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	157,068.3159	
<b>Easting (M)</b>	444,544.7540	
<b>Elevation (M)*</b>	97.725	
<b>Northing (SFT)</b>	515,314.9664	
<b>Easting (SFT)</b>	1,458,477.2471	
<b>Elevation (SFT)*</b>	320.619	

  

<b>Convergence Angle</b>	0	17	11.7351117
<b>Scale Factor</b>	0.999940010		
<b>Elevation Adjust. Factor</b>	0.9999846640		
<b>Combined Adjust. Factor</b>	0.9999246749		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4" FENCE BRACE POST	310	21.70	71.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT 1990	
<b>Ref Mon # 2</b> BATEPORT 1990	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 44 53.1566916
<b>Longitude</b>	91 30 26.9519544
<b>Ellipsoid Height (M):</b>	69.357
<b>Geoid Height (M):</b>	-28.368

Location Description
<p>FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.72 KM (0.45 MILES) TO THE STATION ON THE LEFT. THE STATION IS 14.3 METERS SOUTHEAST OF THE CENTER OF HWY. 69 AND 0.93 METERS NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320008A	<b>Date Monumented</b> 4/16/1998	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 122	<b>Job Number:</b> R50064
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,692.0830	
<b>Easting (M)</b>	450,336.8290	
<b>Elevation (M)*</b>	72.339	
<b>Northing (SFT)</b>	491,114.7756	
<b>Easting (SFT)</b>	1,477,480.0798	
<b>Elevation (SFT)*</b>	237.332	

  

<b>Convergence Angle</b>	0	19	24.9222187
<b>Scale Factor</b>	0.999937366		
<b>Elevation Adjust. Factor</b>	0.9999886478		
<b>Combined Adjust. Factor</b>	0.9999260145		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	175	10.00	32.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> NEWSPORT	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 40 52.8156588
<b>Longitude</b>	91 26 38.0684580
<b>Ellipsoid Height (M):</b>	44.975
<b>Geoid Height (M):</b>	-27.383

  

Location Description
THE STATION IS LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK AT THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69. THE STATION IS 74.114 METERS NORTH OF THE CENTER OF STATE HIGHWAY 69, 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 122 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320009	<b>Date Monumented</b> 6/11/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69B	<b>Job Number:</b> R50090
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,790.3770	
<b>Easting (M)</b>	431,025.4190	
<b>Elevation (M)*</b>	82.798	
<b>Northing (SFT)</b>	524,245.5952	
<b>Easting (SFT)</b>	1,414,122.5622	
<b>Elevation (SFT)*</b>	271.646	

  

<b>Convergence Angle</b>	0	11	58.8262609
<b>Scale Factor</b>	0.999941352		
<b>Elevation Adjust. Factor</b>	0.9999870065		
<b>Combined Adjust. Factor</b>	0.9999283592		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO SOUTHEAST ON STATE HIGHWAY 69B FOR 0.41 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.05 METERS NORTHWEST OF THE CENTER OF CHARLES STREET, 5.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 69B AND 1.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009 1997" SET ON TOP OF AN IRON ROD 0.91 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	139	7.70	25.3
MK # 2	SOUTHWEST CORNER OF FUNERAL HOME	40	26.80	87.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BATEPORT</p> <p>Ref Mon # 2    J 165</p> <p>Ref Mon # 3    ALMOND</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&amp;GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320009A	<b>Date Monumented</b> 6/11/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69B	<b>Job Number:</b> R50090
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 160,189.3939		<b>Latitude</b> 35 46 36.3221472
<b>Easting (M)</b> 430,729.9490		<b>Longitude</b> 91 39 36.3987540
<b>Elevation (M)*</b> 94.646		<b>Ellipsoid Height (M):</b> 66.280
<b>Northing (SFT)</b> 525,554.7032		<b>Geoid Height (M):</b> -28.366
<b>Easting (SFT)</b> 1,413,153.1743		
<b>Elevation (SFT)*</b> 310.518		

  

<b>Convergence Angle</b> 0 11 52.0124981	<b>Location Description</b>
<b>Scale Factor</b> 0.999941561	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO NORTHWEST ON STATE HIGHWAY 69B FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.50 METERS SOUTHEAST OF THE CENTER OF BAKER STREET, 5.25 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 69B AND 1.73 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999851472	
<b>Combined Adjust. Factor</b> 0.9999267090	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	U. S. POSTAL MAIL BOX	310	8.50	27.9		320009
MK # 2	LIGHT POLE	146	16.00	52.5		143 40 41.02477
MK # 3						143 28 49.02816

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BATEPORT	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&amp;GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639</p>
Ref Mon # 2 J 165	
Ref Mon # 3 ALMOND	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320010	<b>Date Monumented</b> 6/11/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 106	<b>Job Number:</b> R50090
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,958.1540	
<b>Easting (M)</b>	426,931.2500	
<b>Elevation (M)*</b>	105.940	
<b>Northing (SFT)</b>	524,796.0436	
<b>Easting (SFT)</b>	1,400,690.2760	
<b>Elevation (SFT)*</b>	347.571	

  

<b>Convergence Angle</b>	0	10	23.9810619
<b>Scale Factor</b>	0.999941446		
<b>Elevation Adjust. Factor</b>	0.9999833748		
<b>Combined Adjust. Factor</b>	0.9999248218		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO WESTERLY ON STATE HIGHWAY 106 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.30 METERS NORTH OF THE CENTER OF MILL DAM ROAD, 6.67 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 106 AND 0.68 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320010 1997" SET ON TOP OF AN IRON 0.92 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.70 METER PECAN TREE	106	32.40	106.3
MK # 2	WOODEN CORNER POST	195	35.37	116.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BATEPORT</p> <p>Ref Mon # 2    J 165</p> <p>Ref Mon # 3    ALMOND</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&amp;GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320010A	<b>Date Monumented</b> 6/11/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 106	<b>Job Number:</b> R50090
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,948.6659	
<b>Easting (M)</b>	427,304.3590	
<b>Elevation (M)*</b>	100.791	
<b>Northing (SFT)</b>	524,764.9147	
<b>Easting (SFT)</b>	1,401,914.3845	
<b>Elevation (SFT)*</b>	330.678	

  

<b>Convergence Angle</b>	0	10	32.6250480
<b>Scale Factor</b>	0.999941440		
<b>Elevation Adjust. Factor</b>	0.9999841829		
<b>Combined Adjust. Factor</b>	0.9999256238		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	AHTD BENCH MARK	85	11.53	37.8
<b>MK # 2</b>	PUNCH IN TOP OF A GUARD RAIL	65	2.05	6.7
<b>MK # 3</b>	PUNCH IN TOP OF A GUARD RAIL	280	3.95	13.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BATEPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639
<b>Ref Mon # 2</b> J 165	
<b>Ref Mon # 3</b> ALMOND	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b> NAVD 88	
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 28.8734592
<b>Longitude</b>	91 41 52.8269532
<b>Ellipsoid Height (M):</b>	72.431
<b>Geoid Height (M):</b>	-28.360

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO WESTERLY ON STATE HIGHWAY 106 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTER OF MILL DAM ROAD, 9.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 106 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320011	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,092.9961	
<b>Easting (M)</b>	435,667.6260	
<b>Elevation (M)*</b>	90.851	
<b>Northing (SFT)</b>	466,183.4380	
<b>Easting (SFT)</b>	1,429,352.8696	
<b>Elevation (SFT)*</b>	298.067	

  

<b>Convergence Angle</b>	0	13	44.7407538
<b>Scale Factor</b>	0.999936065		
<b>Elevation Adjust. Factor</b>	0.9999857427		
<b>Combined Adjust. Factor</b>	0.9999218086		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 15.05 KM. (9.35 MI.) TO THE STATION ON THE LEFT ACROSS THE HIGHWAY FROM A ROADSIDE PARK AND REST AREA. 27.40 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.95 METERS EAST OF THE CENTER OF HWY-167 AND 1.00 METERS WEST OF A WITNESS POST SET NEAR A FIRE HYDRANT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	151	1.38	4.5
<b>MK # 2</b>	WATER VALVE	209	2.25	7.4
<b>MK # 3</b>	NORTH GATE POST	97	28.20	92.5

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	SEARPORT	<p>ELEVATION BY 3-WIRE LEVELING USING TBM-19 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON</p>
<b>Ref Mon # 2</b>	BATEPORT	
<b>Ref Mon # 3</b>	NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320011A	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	142,422.8220
<b>Easting (M)</b>	435,716.4850
<b>Elevation (M)*</b>	93.584
<b>Northing (SFT)</b>	467,265.5418
<b>Easting (SFT)</b>	1,429,513.1679
<b>Elevation (SFT)*</b>	307.034

  

<b>Convergence Angle</b>	0 13 45.9010420
<b>Scale Factor</b>	0.999936093
<b>Elevation Adjust. Factor</b>	0.9999853138
<b>Combined Adjust. Factor</b>	0.9999214078

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 14.73 KM. (9.15 MI.) TO THE STATION ON THE RIGHT. 16.25 METERS WEST OF THE CENTER OF HWY-167, 10.40 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE AND 4.00 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/TBM-20	282	4.15	13.6
<b>MK # 2</b>	WATER METER	342	6.70	22.0
<b>MK # 3</b>	SOUTH END OF CMP 0.40 METERS IN DIAMETER	50	9.70	31.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-20 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
<b>Ref Mon # 2</b> BATEPORT	
<b>Ref Mon # 3</b> NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320012	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	147,079.8389	
<b>Easting (M)</b>	435,737.7610	
<b>Elevation (M)*</b>	84.104	
<b>Northing (SFT)</b>	482,544.4381	
<b>Easting (SFT)</b>	1,429,582.9709	
<b>Elevation (SFT)*</b>	275.931	

  

<b>Convergence Angle</b>	0	13	46.8246912
<b>Scale Factor</b>	0.999936770		
<b>Elevation Adjust. Factor</b>	0.9999868015		
<b>Combined Adjust. Factor</b>	0.9999235723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL POST	12	4.00	13.1
MK # 2	PUNCH IN TOP OF GUARD RAIL POST	22	2.15	7.1
MK # 3	PUNCH IN TOP OF GUARD RAIL POST	170	3.90	12.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-32 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2    BATEPORT	
Ref Mon # 3    NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320012A	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962, 005963
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	147,526.8120	
<b>Easting (M)</b>	435,846.5470	
<b>Elevation (M)*</b>	88.025	
<b>Northing (SFT)</b>	484,010.8824	
<b>Easting (SFT)</b>	1,429,939.8796	
<b>Elevation (SFT)*</b>	288.795	

  

<b>Convergence Angle</b>	0	13	49.3831050
<b>Scale Factor</b>	0.999936864		
<b>Elevation Adjust. Factor</b>	0.9999861862		
<b>Combined Adjust. Factor</b>	0.9999230511		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	162	11.61	38.1
<b>MK # 2</b>	NORTH GATE POST	118	2.08	6.8
<b>MK # 3</b>	WATER VALVE	285	14.32	47.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	ELEVATION BY 3-WIRE LEVELING USING HPT-61 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
<b>Ref Mon # 2</b> BATEPORT	
<b>Ref Mon # 3</b> NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320013	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	149,686.7419
<b>Easting (M)</b>	434,742.6870
<b>Elevation (M)*</b>	89.681
<b>Northing (SFT)</b>	491,097.2524
<b>Easting (SFT)</b>	1,426,318.2989
<b>Elevation (SFT)*</b>	294.228

  

<b>Convergence Angle</b>	0 13 24.0381158
<b>Scale Factor</b>	0.999937384
<b>Elevation Adjust. Factor</b>	0.9999859263
<b>Combined Adjust. Factor</b>	0.9999233112

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 6.76 KM (4.20 MI) TO THE CALVARY PENECOSTAL CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 11.364 METERS WEST OF THE CENTER OF U.S. HWY 167, 7.508 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE TO THE CHURCH AND 3.02 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 320013 1997" SET ON TOP OF AN IRON ROD 0.77 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	266	3.20	10.5
<b>MK # 2</b>	FIRE HYDRANT	83	26.56	87.1
<b>MK # 3</b>	NORTH END OF A CMP 0.60 METERS IN DIA METER	170	39.35	129.1

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> NEWSPORT	<b>Comments</b>  ELEVATION BY 3-WIRE LEVELING USING TBM-40 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320013A	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	149,054.9740				
<b>Easting (M)</b>	434,821.1500				
<b>Elevation (M)*</b>	88.219				
<b>Northing (SFT)</b>	489,024.5272				
<b>Easting (SFT)</b>	1,426,575.7230				
<b>Elevation (SFT)*</b>	289.432				

  

<b>Convergence Angle</b>	0	13	25.7968214
<b>Scale Factor</b>	0.999937220		
<b>Elevation Adjust. Factor</b>	0.9999861558		
<b>Combined Adjust. Factor</b>	0.9999233766		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE=TBM 38	326	19.14	62.8
MK # 2	SOUTH END OF A CMP 0.457 METERS IN DI AMETER	350	22.21	72.9
MK # 3	FIRE HYDRANT	93	40.11	131.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-38 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2    BATEPORT	
Ref Mon # 3    NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320014	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962, 050115
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	152,934.3699
<b>Easting (M)</b>	433,358.4990
<b>Elevation (M)*</b>	112.618
<b>Northing (SFT)</b>	501,752.1786
<b>Easting (SFT)</b>	1,421,777.0088
<b>Elevation (SFT)*</b>	369.480

  

<b>Convergence Angle</b>	0 12 52.2860346
<b>Scale Factor</b>	0.999938384
<b>Elevation Adjust. Factor</b>	0.9999823269
<b>Combined Adjust. Factor</b>	0.9999207120

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 3.14 KM. (1.95 MI.) TO THE DISTRICT FIVE HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT AND THE STATION ON THE LEFT. 23.149 METERS EAST OF THE CENTER OF HWY-167, 9.128 METERS NORTH OF THE ENTRANCE TO THE DISTRICT FIVE HEADQUARTERS AND 8.524 METERS WEST OF A PAVED STREET. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320014 1997" SET ON TOP OF AN IRON ROD ENCASED IN A 30cm CONCRETE POST AND IS FLUSH WITH THE GROUND.</p>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	305	15.59	51.2
MK # 2	GUY POLE W/TBM-49	325	50.41	165.4
MK # 3	NORTHWEST CORNER OF BRICK BUILDING	132	58.16	190.8

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEARPORT</p> <p>Ref Mon # 2    BATEPORT</p> <p>Ref Mon # 3    NEWSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON. ELEV. UPDATED BY CREW S5102 DURING JOB 050302 IN SEPT. 2013 FROM FIRST ORDER BM ARBT1</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320014A	<b>Date Monumented</b> 7/7/1997	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> N/A	<b>Job Number:</b> 5962, 050115
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	152,984.6770
<b>Easting (M)</b>	433,729.2830
<b>Elevation (M)*</b>	120.753
<b>Northing (SFT)</b>	501,917.2278
<b>Easting (SFT)</b>	1,422,993.4893
<b>Elevation (SFT)*</b>	396.170

  

<b>Convergence Angle</b>	0	13	0.8744216
<b>Scale Factor</b>	0.999938401		
<b>Elevation Adjust. Factor</b>	0.9999810503		
<b>Combined Adjust. Factor</b>	0.9999194524		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 3.14 KM. (1.95 MI.) TO THE DISTRICT FIVE HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT ON THE LEFT. TURN LEFT ONTO THE NORTHERN MOST DRIVEWAY AND GO EASTERLY PASSING THROUGH A GATE FOR 0.34 KM. (0.18 MI.) TO THE STATION ON THE LEFT NEAR THE NORTHEASTERN CORNER OF DISTRICT FIVE HEADQUARTERS. THE STATION IS 4.352 METERS NORTH OF THE PAVED ROAD AND 9.23 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAINLINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320014A 1997" SET ON TOP OF AN IRON ROD ENCASED IN A 30cm CONCRETE POST AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE TANK SUPPORT	175	56.03	183.8
MK # 2	FENCE CORNER POST	79	46.35	152.1
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SEARPORT	<p>ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON</p>
Ref Mon # 2	BATEPORT	
Ref Mon # 3	NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320016	<b>Date Monumented</b> 12/22/1998	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> R50064
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	145,264.4730	
<b>Easting (M)</b>	460,729.0990	
<b>Elevation (M)*</b>	69.742	
<b>Northing (SFT)</b>	476,588.5252	
<b>Easting (SFT)</b>	1,511,575.3856	
<b>Elevation (SFT)*</b>	228.812	

  

<b>Convergence Angle</b>	0	23	24.7211563
<b>Scale Factor</b>	0.999936422		
<b>Elevation Adjust. Factor</b>	0.9999890553		
<b>Combined Adjust. Factor</b>	0.9999254780		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK, GO EAST ON STATE HIGHWAY 69 FOR 13.05 KM (8.11 KM) TO THE WEST END OF A BRIDGE OVER THE BLACK RIVER AND THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 69 AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "320016 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POS	270	3.30	10.8	
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POS	291	1.72	5.6	
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS	65	2.96	9.7	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> NEWSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320017	<b>Date Monumented</b> 3/11/1999	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962, 005963
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	135,966.9660	
<b>Easting (M)</b>	433,855.9580	
<b>Elevation (M)*</b>	186.952	
<b>Northing (SFT)</b>	446,084.9543	
<b>Easting (SFT)</b>	1,423,409.0889	
<b>Elevation (SFT)*</b>	613.358	

  

<b>Convergence Angle</b>	0	13	2.3128078
<b>Scale Factor</b>	0.999936037		
<b>Elevation Adjust. Factor</b>	0.9999706620		
<b>Combined Adjust. Factor</b>	0.9999067009		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.51 METERS NORTH OF THE CENTER OF A CONCRETE ENTRANCE TO A CONVENIENCE STORE, 14.86 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO CONVENIENCE STORE, 11.89 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm ALUMINUM CAP STAMPED (ARKANSAS LAND SERVICE RLS 1282 320017) SET ON TOP OF A 150mm ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND. NGVD 29 ELEVATION = 186.882 METERS</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CMP	13	10.17	33.4
MK # 2	NORTH END OF CMP	167	9.59	31.5
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    NEWSPORT</p> <p>Ref Mon # 2    SEARPORT</p> <p>Ref Mon # 3    320011</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY THREE WIRE LEVELING USING TBM-901 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATAFORM IS NAVD88 AND WAS ARRIVED AT USING THE VERTCON CONVERSION PROGRAM.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320017A	<b>Date Monumented</b> 3/11/1999	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 5962
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	136,338.9080				
<b>Easting (M)</b>	433,972.4290				
<b>Elevation (M)*</b>	194.106				
<b>Northing (SFT)</b>	447,305.2340				
<b>Easting (SFT)</b>	1,423,791.2108				
<b>Elevation (SFT)*</b>	636.829				

  

<b>Convergence Angle</b>	0	13	5.0367975
<b>Scale Factor</b>	0.999936012		
<b>Elevation Adjust. Factor</b>	0.9999695394		
<b>Combined Adjust. Factor</b>	0.9999055533		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CMP	36	6.50	21.3
MK # 2	NORTH END OF CMP	183	4.33	14.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NEWSPORT	PT HAS BEEN DISTURBED. THE CAP HAS BEEN KNOCKED OFF AS PER MSK 12 JAN 2005.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 320011	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320018	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050070,050213
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,997.0610	
<b>Easting (M)</b>	440,370.3850	
<b>Elevation (M)*</b>	197.138	
<b>Northing (SFT)</b>	557,732.0243	
<b>Easting (SFT)</b>	1,444,781.8381	
<b>Elevation (SFT)*</b>	646.777	

  

<b>Convergence Angle</b>	0	15	36.4102139
<b>Scale Factor</b>	0.999947887		
<b>Elevation Adjust. Factor</b>	0.9999690636		
<b>Combined Adjust. Factor</b>	0.9999169522		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	33	18.77	61.6
<b>MK # 2</b>	GAS REGULATOR STATION	59	10.94	35.9
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	195	24.93	81.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 313 <b>Ref Mon # 2</b> FAA 7M9 A <b>Ref Mon # 3</b> BATEPORT	Elevation by 3 Wire from NGS point Q 165    

  

Location Description	
TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 8.30 KM (5.16 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.313 METERS NORTH OF THE CENTER OF HILLY VILLAGE ROAD, 14.276 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "320018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	320018	
<b>Geodetic Azimuth</b>	23 27 30.808749	
<b>Grid Azimuth</b>	23 11 54.418696	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320018A	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050070
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,580.6680	
<b>Easting (M)</b>	440,620.5000	
<b>Elevation (M)*</b>	192.742	
<b>Northing (SFT)</b>	559,646.7416	
<b>Easting (SFT)</b>	1,445,602.4238	
<b>Elevation (SFT)*</b>	632.354	

  

<b>Convergence Angle</b>	0	15	42.2735094
<b>Scale Factor</b>	0.999948339		
<b>Elevation Adjust. Factor</b>	0.9999697534		
<b>Combined Adjust. Factor</b>	0.9999180940		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	UNDER GROUND CABLE WARNING SIGN	197	27.00	88.6
<b>MK # 2</b>	GATE POST	28	17.06	56.0
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 313	Elevation by 3 Wire from NGS point Q 165
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 52 12.1999620
<b>Longitude</b>	91 33 0.6926940
<b>Ellipsoid Height (M):</b>	165.093
<b>Geoid Height (M):</b>	-27.643

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 7.68 KM (4.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320018A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	320018
<b>Geodetic Azimuth</b>	203 27 36.71249
<b>Grid Azimuth</b>	203 11 54.41870

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320019	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050070,050213
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	175,931.4540	
<b>Easting (M)</b>	440,652.6620	
<b>Elevation (M)*</b>	176.980	
<b>Northing (SFT)</b>	577,201.7787	
<b>Easting (SFT)</b>	1,445,707.9419	
<b>Elevation (SFT)*</b>	580.642	

  

<b>Convergence Angle</b>	0	15	43.5873701
<b>Scale Factor</b>	0.999952881		
<b>Elevation Adjust. Factor</b>	0.9999722268		
<b>Combined Adjust. Factor</b>	0.9999251091		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CMP	345	56.78	186.3
<b>MK # 2</b>	COMBINATION POLE	14	38.30	125.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 313	Elevation by 3 Wire from NGS point U 165
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320020	<b>Date Monumented</b> 6/29/2000	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 106	<b>Job Number:</b> R50109
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,542.1708	
<b>Easting (M)</b>	422,022.4382	
<b>Elevation (M)*</b>	153.876	
<b>Northing (SFT)</b>	546,397.1054	
<b>Easting (SFT)</b>	1,384,585.2827	
<b>Elevation (SFT)*</b>	504.841	

  

<b>Convergence Angle</b>	0	8	30.6249689
<b>Scale Factor</b>	0.999945424		
<b>Elevation Adjust. Factor</b>	0.9999758524		
<b>Combined Adjust. Factor</b>	0.9999212778		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 106 AND STATE HIGHWAY 69, LOCATED ABOUT 16.09 KM (10.00 MI) NORTH OF BATESVILLE, GO WEST ON STATE HIGHWAY 106 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTHEAST OF THE CENTER OF A PASTURE ENTRANCE, 10.75 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 106 AND 1.30 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320020 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.713 METERS</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	236	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BATEPORT</p> <p>Ref Mon # 2    330001</p> <p>Ref Mon # 3    V 165</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON AHTD BM 320021. ALSO BM 901 (LM 11.37 E HW) = 502.978 FEET</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320020A	<b>Date Monumented</b> 6/29/2000	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 106	<b>Job Number:</b> R50109
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	166,263.6081				
<b>Easting (M)</b>	421,735.8186				
<b>Elevation (M)*</b>	161.212				
<b>Northing (SFT)</b>	545,483.1876				
<b>Easting (SFT)</b>	1,383,644.9315				
<b>Elevation (SFT)*</b>	528.909				

  

<b>Convergence Angle</b>	0	8	23.9634862
<b>Scale Factor</b>	0.999945235		
<b>Elevation Adjust. Factor</b>	0.9999747013		
<b>Combined Adjust. Factor</b>	0.9999199376		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 106 AND STATE HIGHWAY 69, LOCATED ABOUT 16.09 KM (10.00 MI) NORTH OF BATESVILLE, GO WEST ON STATE HIGHWAY 106 FOR 3.06 KM (1.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.35 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 106 AND 1.00 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320020A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.713 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BATEPORT</p> <p><b>Ref Mon # 2</b>    330001</p> <p><b>Ref Mon # 3</b>    V 165</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ALSO BM 902 (LM 11.08 N HW) = 493.19000 FEET. ALSO BM 903 (N HEADWALL) = 490.503 FEET</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320021	<b>Date Monumented</b> 8/14/2001	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050095,050313,C32005
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	158,437.0582    0.0030
<b>Easting (M)</b>	432,435.6702    0.0030
<b>Elevation (M)*</b>	82.600

  

<b>Northing (SFT)</b>	519,805.5818	
<b>Easting (SFT)</b>	1,418,749.3613	
<b>Elevation (SFT)*</b>	270.998	

  

<b>Convergence Angle</b>	0	12	31.3857907
<b>Scale Factor</b>	0.999940672		
<b>Elevation Adjust. Factor</b>	0.9999870375		
<b>Combined Adjust. Factor</b>	0.9999277102		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	35    45    39.2667912
<b>Longitude</b>	91    38    28.7362860
<b>Ellipsoid Height:</b>	54.959
<b>Grid Northing (Meters)</b>	158,437.0480
<b>Grid Easting (Meters)</b>	432,435.6460

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U.S. HIGHWAY 167 FOR 0.966 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.90 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT IS ON THE NORTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531.287 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN METAL GUARD RAIL POS	153	9.40	30.8
<b>MK # 2</b>	PUNCH MARK IN METAL GUARD RAIL POS	31	3.60	11.8
<b>MK # 3</b>	PUNCH MARK IN METAL GUARD RAIL POS	86	6.75	22.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> V 165	Elevation determined by digital levels from NGS BM C 334 by crew s5102 during job 050302 in September 2013
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320021A	<b>Date Monumented</b> 8/14/2001	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050095,050313,C32005
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	157,906.3638 0.0030
<b>Easting (M)</b>	432,459.9066 0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	518,064.4619	
<b>Easting (SFT)</b>	1,418,828.8769	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	31.9024172
<b>Scale Factor</b>	0.999940419		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	45	22.0442976
<b>Longitude</b>	91	38	27.8481912
<b>Ellipsoid Height:</b>	54.002		
<b>Grid Northing (Meters)</b>	157,906.3550		
<b>Grid Easting (Meters)</b>	432,459.8890		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	20	3.10	10.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	85	1.60	5.2
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	155	6.05	19.8

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    V 165 Ref Mon # 2    NEWSPORT Ref Mon # 3    BATEPORT	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	GEIOD12A
<b>Latitude</b>	35 45 22.0445820
<b>Longitude</b>	91 38 27.8474928
<b>Ellipsoid Height (M):</b>	54.053 0.0270
<b>Geoid Height (M):</b>	-27.582

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U. S. HIGHWAY 167 FOR 1.497 KM (0.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION IS ON THE SOUTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531.287 METERS.

<b>AZ Mark Station</b>	320021
<b>Geodetic Azimuth</b>	357 35 36
<b>Grid Azimuth</b>	357 23 04

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320022	<b>Date Monumented</b> 8/14/2001	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050095
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,497.0680	
<b>Easting (M)</b>	435,369.7710	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	523,283.2973	
<b>Easting (SFT)</b>	1,428,375.6570	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	39.4523255
<b>Scale Factor</b>	0.999941193		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE, GO EAST ON STATE HIGHWAY 69 FOR 3.428 KM (2.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 69, 9.00 METERS SOUTHWEST OF THE CENTER OF A CONCRETE DRIVE, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320022 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.338 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	20	24.70	81.0
MK # 2	CORNER STARS AND STRIPES GYM BUILDING	294	29.80	97.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> V 165 <b>Ref Mon # 2</b> NEWSPORT <b>Ref Mon # 3</b> BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320022A	<b>Date Monumented</b> 8/14/2001	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050095
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,081.8319	
<b>Easting (M)</b>	435,046.3950	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	521,920.9768	
<b>Easting (SFT)</b>	1,427,314.7143	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	31.9225099
<b>Scale Factor</b>	0.999940984		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO EAST ON STATE HIGHWAY 69 FOR 2.897 KM (1.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 69 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320022A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.338 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	210	31.40	103.0
MK # 2	CONCRETE RIGHT OF WAY MARKER	27	27.55	90.4
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 165</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    BATEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320023	<b>Date Monumented</b> 3/29/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050000,050186
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	160,444.3519
<b>Easting (M)</b>	432,508.6700
<b>Elevation (M)*</b>	111.377
<b>Northing (SFT)</b>	526,391.1779
<b>Easting (SFT)</b>	1,418,988.8615
<b>Elevation (SFT)*</b>	365.408

  

<b>Convergence Angle</b>	0 12 33.2466573
<b>Scale Factor</b>	0.999941692
<b>Elevation Adjust. Factor</b>	0.9999825217
<b>Combined Adjust. Factor</b>	0.9999242147

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 44.3898516
<b>Longitude</b>	91 38 25.5374016
<b>Ellipsoid Height (M):</b>	83.894
<b>Geoid Height (M):</b>	-27.512

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.00 MILE TO THE STATION ON THE LEFT. THE STATION IS 22.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 5.40 METERS WEST OF THE CENTER OF AN ASPHALT DRIVE, AND 13.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320023 2002" SET ON TOP OF AN IRON ROD 0.92 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	3	13.55	44.5
MK # 2	CONCRETE RIGHT OF WAY MARKER	325	25.75	84.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> FAA 7M9 A <b>Ref Mon # 2</b> NEWSFORT <b>Ref Mon # 3</b> BATEPORT	3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320024	<b>Date Monumented</b> 3/29/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050000,050186,050213
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,503.9130	
<b>Easting (M)</b>	434,759.4980	
<b>Elevation (M)*</b>	119.092	
<b>Northing (SFT)</b>	536,429.0879	
<b>Easting (SFT)</b>	1,426,373.4530	
<b>Elevation (SFT)*</b>	390.720	

  

<b>Convergence Angle</b>	0	13	25.6761714
<b>Scale Factor</b>	0.999943434		
<b>Elevation Adjust. Factor</b>	0.9999813110		
<b>Combined Adjust. Factor</b>	0.9999247460		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.59 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED ON THE HILL IN ROSELAWN MEMORIAL GARDENS. THE STATION IS 7.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE IN THE CEMETERY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	260	14.40	47.2
MK # 2	JOHNA J. DUNCAN GRAVE MARKER	325	16.80	55.1
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	FAA 7M9 A	<p>3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.</p>
Ref Mon # 2	NEWSPORT	
Ref Mon # 3	BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320024A	<b>Date Monumented</b> 3/29/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050000,050186
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,220.5489	
<b>Easting (M)</b>	434,332.6200	
<b>Elevation (M)*</b>	111.907	
<b>Northing (SFT)</b>	535,499.4175	
<b>Easting (SFT)</b>	1,424,972.9375	
<b>Elevation (SFT)*</b>	367.149	

  

<b>Convergence Angle</b>	0	13	15.7565009
<b>Scale Factor</b>	0.999943263		
<b>Elevation Adjust. Factor</b>	0.9999824384		
<b>Combined Adjust. Factor</b>	0.9999257024		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.28 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 167, 17.60 METERS EAST OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320024A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	260	15.00	49.2
MK # 2	GATE POST	215	12.90	42.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FAA 7M9 A</p> <p>Ref Mon # 2    NEWSFORT</p> <p>Ref Mon # 3    BATEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320025	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050136
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,844.9889	
<b>Easting (M)</b>	434,485.8080	
<b>Elevation (M)*</b>	90.358	
<b>Northing (SFT)</b>	530,986.4344	
<b>Easting (SFT)</b>	1,425,475.5217	
<b>Elevation (SFT)*</b>	296.450	

  

<b>Convergence Angle</b>	0	13	19.1835053
<b>Scale Factor</b>	0.999942459		
<b>Elevation Adjust. Factor</b>	0.9999858201		
<b>Combined Adjust. Factor</b>	0.9999282799		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	74	20.90	68.6
MK # 2	MANHOLE COVER	44	9.20	30.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BUTLER	ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165
Ref Mon # 2 AHTD PAR1	
Ref Mon # 3 RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320025A	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050136
---------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	161,808.6159				
<b>Easting (M)</b>	435,190.5760				
<b>Elevation (M)*</b>	92.236				
<b>Northing (SFT)</b>	530,867.1007				
<b>Easting (SFT)</b>	1,427,787.7481				
<b>Elevation (SFT)*</b>	302.611				

  

<b>Convergence Angle</b>	0	13	35.5124884
<b>Scale Factor</b>	0.999942437		
<b>Elevation Adjust. Factor</b>	0.9999855254		
<b>Combined Adjust. Factor</b>	0.9999279632		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	85	41.40	135.8
MK # 2	REINFORCED CONCRETE PIPE	340	26.50	86.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: BUTLER	ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165
Ref Mon # 2: AHTD PAR1	
Ref Mon # 3: RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320026	<b>Date Monumented</b> 6/27/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	136,044.9320	
<b>Easting (M)</b>	434,313.0930	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	446,340.7477	
<b>Easting (SFT)</b>	1,424,908.8726	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	12.8826906
<b>Scale Factor</b>	0.999936032		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	3	15.30	50.2
MK # 2	TELEPHONE RISER	175	14.20	46.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	HEBEPORT, NEWSPORT
<b>Ref Mon # 2</b>	BATEPORT
<b>Ref Mon # 3</b>	BUTLER

  

Comments

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 25.6 METERS EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.05 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320026 2005" SET ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

HARN

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320027	<b>Date Monumented</b> 6/27/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,593.5680	
<b>Easting (M)</b>	435,773.1380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	467,825.7310	
<b>Easting (SFT)</b>	1,429,699.0369	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	47.2268957
<b>Scale Factor</b>	0.999936108		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	150	4.50	14.8
<b>MK # 2</b>	WOOD FENCE POST	172	7.10	23.3
<b>MK # 3</b>	GUY WIRE	132	7.05	23.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> HEBEPORT, NEWSPORT <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> BUTLER	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 37 4.7651160
<b>Longitude</b>	91 36 18.4015548
<b>Ellipsoid Height (M):</b>	64.877
<b>Geoid Height (M):</b>	-27.268

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 4.50 MILES TO THE STATION MARK ON THE RIGHT, 39.80 METERS NORTH OF A FIELD ENTRANCE, EAST 19.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 2.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320027 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	320027A
<b>Geodetic Azimuth</b>	195 57 14
<b>Grid Azimuth</b>	195 43 27

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320027A	<b>Date Monumented</b> 6/27/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,088.8970	
<b>Easting (M)</b>	435,631.0530	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	466,169.9896	
<b>Easting (SFT)</b>	1,429,232.8797	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	43.8947078
<b>Scale Factor</b>	0.999936065		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF RCP	131	6.20	20.3
<b>MK # 2</b>	NORTH END OF GUARDRAIL	128	12.30	40.4
<b>MK # 3</b>	SOUTHEAST END OF RCP	293	15.30	50.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HEBEPORT, NEWSPORT	
<b>Ref Mon # 2</b> BATEPORT	
<b>Ref Mon # 3</b> BUTLER	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 36 48.4078500
<b>Longitude</b>	91 36 24.1279560
<b>Ellipsoid Height (M):</b>	64.511
<b>Geoid Height (M):</b>	-27.258

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 4.10 MILES TO THE STATION MARK ON THE LEFT, 10.0 METERS SOUTH OF A THE SOUTHERN MOST ENTRANCE TO ROAD SIDE PARK, WEST 24.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320027A 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320028	<b>Date Monumented</b> 6/28/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	147,027.3480				
<b>Easting (M)</b>	435,719.0070				
<b>Elevation (M)*</b>	83.503				
<b>Northing (SFT)</b>	482,372.2242				
<b>Easting (SFT)</b>	1,429,521.4421				
<b>Elevation (SFT)*</b>	273.959				

  

<b>Convergence Angle</b>	0	13	46.3859402
<b>Scale Factor</b>	0.999936760		
<b>Elevation Adjust. Factor</b>	0.9999868958		
<b>Combined Adjust. Factor</b>	0.9999236567		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF HEADWALL	311	0.50	1.6
<b>MK # 2</b>	NORTHWEST CORNER OF HEADWALL	13	12.10	39.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HEBEPORT, NEWSPORT	
<b>Ref Mon # 2</b> BATEPORT	
<b>Ref Mon # 3</b> BUTLER	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   39   28.6402392
<b>Longitude</b>	91   36   19.8467460
<b>Ellipsoid Height (M):</b>	56.173
<b>Geoid Height (M):</b>	-27.329

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 7.3 MILES TO THE STATION MARK ON THE LEFT, 17.70 METERS WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320028 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320029	<b>Date Monumented</b> 6/28/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,842.1740	
<b>Easting (M)</b>	434,756.0260	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	491,607.1992	
<b>Easting (SFT)</b>	1,426,362.0620	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	24.3608401
<b>Scale Factor</b>	0.999937426		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	189	8.10	26.6
<b>MK # 2</b>	COMBINATION POLE W/LIGHT	5	31.00	101.7
<b>MK # 3</b>	NORTHEAST CORNER WINGWALL	185	23.25	76.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> HEBEPORT, NEWSPORT <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> BUTLER	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 41 0.0991968
<b>Longitude</b>	91 36 57.6971208
<b>Ellipsoid Height (M):</b>	63.910
<b>Geoid Height (M):</b>	-27.362

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 9.4 MILES TO THE STATION MARK ON THE RIGHT, 35.10 METERS SOUTH OF A DRIVEWAY, EAST 19.20 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	320029
<b>Geodetic Azimuth</b>	175 52 02
<b>Grid Azimuth</b>	175 38 38

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320029A	<b>Date Monumented</b> 6/28/2005	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 005963
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,051.7349	
<b>Easting (M)</b>	434,816.2380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	489,013.9003	
<b>Easting (SFT)</b>	1,426,559.6075	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	25.6828602
<b>Scale Factor</b>	0.999937219		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 8.9 MILES TO THE STATION MARK ON THE LEFT, 32.40 METERS SOUTH OF KYLER ROAD, WEST 19.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029A 3 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	NORTH END OF RCP	340	22.25	73.0	
<b>MK # 2</b>	TELEPHONE RISER	332	19.80	65.0	
<b>MK # 3</b>	COMBINATION POLE	163	24.10	79.1	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HEBEPORT, NEWSPORT</p> <p><b>Ref Mon # 2</b>    BATEPORT</p> <p><b>Ref Mon # 3</b>    BUTLER</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320030	<b>Date Monumented</b> 8/9/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,416.6769	
<b>Easting (M)</b>	436,723.5580	
<b>Elevation (M)*</b>	124.272	
<b>Northing (SFT)</b>	542,704.5475	
<b>Easting (SFT)</b>	1,432,817.2065	
<b>Elevation (SFT)*</b>	407.717	

  

<b>Convergence Angle</b>	0	14	11.3828073
<b>Scale Factor</b>	0.999944638		
<b>Elevation Adjust. Factor</b>	0.9999804980		
<b>Combined Adjust. Factor</b>	0.9999251371		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	"American vetrans' sign	286	3.65	12.0
<b>MK # 2</b>	North end of a 24 inch culvert	170	8.53	28.0
<b>MK # 3</b>	Fire hydrant	0	21.65	71.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MONA, MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 25.1953788
<b>Longitude</b>	91 35 36.8893572
<b>Ellipsoid Height (M):</b>	96.698
<b>Geoid Height (M):</b>	-27.574

Location Description
<p>To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 1.30 miles to the station on the left. 43.0 feet west of the center of hwy-167 and 11.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "320030 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

<b>AZ Mark Station</b>	320030A
<b>Geodetic Azimuth</b>	199 17 19
<b>Grid Azimuth</b>	199 03 07

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320030A	<b>Date Monumented</b> 8/9/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,949.1069	
<b>Easting (M)</b>	436,562.0860	
<b>Elevation (M)*</b>	124.433	
<b>Northing (SFT)</b>	541,170.5282	
<b>Easting (SFT)</b>	1,432,287.4438	
<b>Elevation (SFT)*</b>	408.245	

  

<b>Convergence Angle</b>	0	14	7.5948101
<b>Scale Factor</b>	0.999944334		
<b>Elevation Adjust. Factor</b>	0.9999804727		
<b>Combined Adjust. Factor</b>	0.9999248078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	199	13.11	43.0
<b>MK # 2</b>	Fence corner	99	1.37	4.5
<b>MK # 3</b>	Southwest corner of a church	75	13.72	45.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MONA, MOWS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 10.0457544
<b>Longitude</b>	91 35 43.3990716
<b>Ellipsoid Height (M):</b>	96.866
<b>Geoid Height (M):</b>	-27.569

Location Description
To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 1.0 miles to the station on the right. 53.0 feet east of the center of hwy-167 and 4.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320030A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320031	<b>Date Monumented</b> 8/9/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
--------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,700.6449	
<b>Easting (M)</b>	438,664.2300	
<b>Elevation (M)*</b>	158.627	
<b>Northing (SFT)</b>	553,478.6991	
<b>Easting (SFT)</b>	1,439,184.2279	
<b>Elevation (SFT)*</b>	520.428	

  

<b>Convergence Angle</b>	0	14	56.7049212
<b>Scale Factor</b>	0.999946917		
<b>Elevation Adjust. Factor</b>	0.9999751069		
<b>Combined Adjust. Factor</b>	0.9999220252		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	southwest corner of a metal building	127	7.32	24.0
<b>MK # 2</b>	Fence corner at driveway	65	14.02	46.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MONA, MOWS	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   51   11.4826716
<b>Longitude</b>	91   34   19.0028100
<b>Ellipsoid Height (M):</b>	131.016
<b>Geoid Height (M):</b>	-27.611

Location Description
<p>To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 3.70 miles to the station on the right. 40.0 feet east of the center of hwy-167, 50.0 feet south of a gravel drive, 19.0 feet northwest of a mailbox, 19.0 feet west of a web wire fence and 19.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320031 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320031A	<b>Date Monumented</b> 8/9/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
---------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,294.9699	
<b>Easting (M)</b>	438,322.5950	
<b>Elevation (M)*</b>	149.497	
<b>Northing (SFT)</b>	552,147.7471	
<b>Easting (SFT)</b>	1,438,063.3804	
<b>Elevation (SFT)*</b>	490.476	

  

<b>Convergence Angle</b>	0	14	48.7412459
<b>Scale Factor</b>	0.999946622		
<b>Elevation Adjust. Factor</b>	0.9999765396		
<b>Combined Adjust. Factor</b>	0.9999231628		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	36 inch Cedar tree	44	14.95	49.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	320031
<b>Geodetic Azimuth</b>	40 20 56
<b>Grid Azimuth</b>	40 06 07

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARBT	
Ref Mon # 2    ARPG	
Ref Mon # 3    MONA, MOWS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320032	<b>Date Monumented</b> 8/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,504.1729	
<b>Easting (M)</b>	440,556.0900	
<b>Elevation (M)*</b>	192.923	
<b>Northing (SFT)</b>	559,395.7739	
<b>Easting (SFT)</b>	1,445,391.1053	
<b>Elevation (SFT)*</b>	632.948	

  

<b>Convergence Angle</b>	0	15	40.7713186
<b>Scale Factor</b>	0.999948279		
<b>Elevation Adjust. Factor</b>	0.9999697250		
<b>Combined Adjust. Factor</b>	0.9999180056		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 5.40 miles to the station on the left at the driveway to "Tom's auto body and used cars". 46.0 feet west of the center of hwy-167, 136 feet north of a gravel drive and 14.10 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "320032 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	283	4.40	14.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    MONA, MOWS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320033	<b>Date Monumented</b> 8/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> 167	<b>Job Number:</b> 050213
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	172,537.0119		
<b>Easting (M)</b>	440,462.5540		
<b>Elevation (M)*</b>	220.233		
<b>Northing (SFT)</b>	566,065.1799		
<b>Easting (SFT)</b>	1,445,084.2292		
<b>Elevation (SFT)*</b>	722.549		

  

<b>Convergence Angle</b>	0	15	38.8162388
<b>Scale Factor</b>	0.999949918		
<b>Elevation Adjust. Factor</b>	0.9999654394		
<b>Combined Adjust. Factor</b>	0.9999153591		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	25	14.33	47.0
<b>MK # 2</b>	Gas valve	40	15.85	52.0
<b>MK # 3</b>	Telephone box	160	25.90	85.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MONA, MOWS	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   53   15.6996204
<b>Longitude</b>	91   33   6.6340512
<b>Ellipsoid Height (M):</b>	192.556
<b>Geoid Height (M):</b>	-27.666

  

Location Description
To reach the station from the Independence and Sharp county lines in Cave City go south on hwy-167 for 3.70 miles to the station on the left. 101 feet north of the center of a gravel drive and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320033 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320033A	<b>Date Monumented</b> 8/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Independence	<b>Route</b> NA	<b>Job Number:</b> 050213
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	173,235.6659				
<b>Easting (M)</b>	440,654.1350				
<b>Elevation (M)*</b>	221.048				
<b>Northing (SFT)</b>	568,357.3472				
<b>Easting (SFT)</b>	1,445,712.7746				
<b>Elevation (SFT)*</b>	725.223				

  

<b>Convergence Angle</b>	0	15	43.3353948
<b>Scale Factor</b>	0.999950504		
<b>Elevation Adjust. Factor</b>	0.9999653115		
<b>Combined Adjust. Factor</b>	0.9999158172		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	297	9.14	30.0
<b>MK # 2</b>	Power pole	67	19.81	65.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MONA, MOWS	

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    35    53    38.3399880

**Longitude**    91    32    58.8678324

**Ellipsoid Height (M):**    193.356   

**Geoid Height (M):**    -27.677

  

**Location Description**

To reach the station from the Independence and Sharp county lines in Cave City go south on hwy-167 for 3.20 miles to " Sunset Ridge road" on the left. Turnleft and go east on Sunset ridge road for 0.40 miles to the top of the hill and the station on the right near a pipe gate. 30.0 feet south of Sunset ridge road, 10.70 feet northwest of the center of a gate and 2.70 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "320033A 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320034	<b>Date Monumented</b> 10/21/2014	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050313
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	156,232.9342	0.0020			
<b>Easting (M)</b>	426,858.2926	0.0020			
<b>Elevation (M)*</b>	81.843	0.0020			
<b>Northing (SFT)</b>	512,574.2183				
<b>Easting (SFT)</b>	1,400,450.9150				
<b>Elevation (SFT)*</b>	268.512				

  

<b>Convergence Angle</b>	0	10	22.0304063
<b>Scale Factor</b>	0.999939675		
<b>Elevation Adjust. Factor</b>	0.9999871564		
<b>Combined Adjust. Factor</b>	0.9999268322		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24 IN. CORRUGATED METAL PIPE	35	2.00	6.6
<b>MK # 2</b>	COMBINATION POLE	249	2.50	8.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> P777 <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARPG	<b>Comments</b>  ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
--	--

  

Location Description			
TO REACH FROM THE JUNCTION OF HIGHWAY 230 AND HIGHWAY 25 IN LOCUST GROVE. GO NORTH ON HIGHWAY 25 FOR 2.5 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. NORTH OF A WITNESS POST, 30 FT. SOUTH OF THE CENTERLINE OF HIGHWAY 25, AND 16 FT. WEST OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

<b>AZ Mark Station</b>	320034A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320034A	<b>Date Monumented</b> 10/21/2014	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050313
---------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	156,930.6885    0.0020
<b>Easting (M)</b>	426,887.7780    0.0020
<b>Elevation (M)*</b>	81.822    0.0022
<b>Northing (SFT)</b>	514,863.4339
<b>Easting (SFT)</b>	1,400,547.6517
<b>Elevation (SFT)*</b>	268.444

  

<b>Convergence Angle</b>	0   10   22.7620658
<b>Scale Factor</b>	0.999939980
<b>Elevation Adjust. Factor</b>	0.9999871596
<b>Combined Adjust. Factor</b>	0.9999271404

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    P777 Ref Mon # 2    ARBT Ref Mon # 3    ARPG	<b>Comments</b> ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
---	--

  

Location Description	
TO REACH FROM THE JUNCTION OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 2.5 MILES TO GREENBRIER FARM RD. TURN NORTH / LEFT ON GREENBRIER FARM RD. GO FOR 0.4 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 39.5 FT. EAST OF THE CENTER OF GREENBRIER FARM RD., AND SET IN THE MIDDLE OF A FARM ROAD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 1 FT. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	320034
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320035	<b>Date Monumented</b> 10/21/2014	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050313
--------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	155,192.4416 0.0020
<b>Easting (M)</b>	430,513.0577 0.0020
<b>Elevation (M)*</b>	121.567 0.0017
<b>Northing (SFT)</b>	509,160.5355
<b>Easting (SFT)</b>	1,412,441.5901
<b>Elevation (SFT)*</b>	398.840

  

<b>Convergence Angle</b>	0 11 46.5905513
<b>Scale Factor</b>	0.999939236
<b>Elevation Adjust. Factor</b>	0.9999809226
<b>Combined Adjust. Factor</b>	0.9999201597

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 2.5 FT. SOUTH OF A WITNESS POST, AND 32 FT. NORTH OF THE CENTERLINE OF HWY. 25. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	104	46.30	151.9
MK # 2	METAL SIGN POST (FUN TIME RV SALES)	290	27.90	91.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: P777 Ref Mon # 2: ARBT Ref Mon # 3: ARPG	<b>Comments</b>  ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320035A	<b>Date Monumented</b> 10/21/2014	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050313
---------------------------	--------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	155,304.0853 0.0020
<b>Easting (M)</b>	429,928.0851 0.0020
<b>Elevation (M)*</b>	110.443 0.0020
<b>Northing (SFT)</b>	509,526.8199
<b>Easting (SFT)</b>	1,410,522.3925
<b>Elevation (SFT)*</b>	362.345

  

<b>Convergence Angle</b>	0 11 33.0531373
<b>Scale Factor</b>	0.999939282
<b>Elevation Adjust. Factor</b>	0.9999826682
<b>Combined Adjust. Factor</b>	0.9999219512

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.6 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. SOUTH OF A WITNESS POST, 41 FT. SOUTH OF THE CENTERLINE OF HWY. 25, AND 126 FT. EAST OF THE CENTERLINE OF FRED ST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	294	30.20	99.1
MK # 2	COMBINATION POLE	73	6.30	20.7
MK # 3	NORTHEAST CORNER OF FRONT PORCH	201	15.00	49.2

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: P777 Ref Mon # 2: ARBT Ref Mon # 3: ARPG	<b>Comments</b>  ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320036	<b>Date Monumented</b> 3/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 14	<b>Job Number:</b> 14SLIDE
--------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	155,897.7502	0.0010			
<b>Easting (M)</b>	415,119.0385	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	511,474.5354				
<b>Easting (SFT)</b>	1,361,936.3788				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	5	50.1401727
<b>Scale Factor</b>	0.999939544		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 5.8 MILES TO THE MARK ON THE RIGHT, 15.5' NORTHWEST OF THE C/L OF THE HIGHWAY AND SOUTHWEST 67' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320036" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					320036A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARBT	
Ref Mon # 2: ARM3	
Ref Mon # 3: ARHR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320036A	<b>Date Monumented</b> 3/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 14	<b>Job Number:</b> 14SLIDE
---------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	156,175.4624 0.0010
<b>Easting (M)</b>	415,492.4075 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	512,385.6629	
<b>Easting (SFT)</b>	1,363,161.3403	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	58.7981544
<b>Scale Factor</b>	0.999939662		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 5.5 MILES TO THE MARK ON THE LEFT, 27' SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HDWL	14	6.40	21.0
MK # 2	PP WITH GUY	221	23.50	77.1
MK # 3				

<b>AZ Mark Station</b>	320036
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

**Area Reference Monuments  
(used for Processing)**

Ref Mon # 1	ARBT
Ref Mon # 2	ARM3
Ref Mon # 3	ARHR, P777

**Comments**

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320037	<b>Date Monumented</b> 3/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 14	<b>Job Number:</b> 14SLIDE
--------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	156,017.4063	0.0010			
<b>Easting (M)</b>	417,823.0320	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	511,867.1072				
<b>Easting (SFT)</b>	1,370,807.7308				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	6	52.7670552
<b>Scale Factor</b>	0.999939592		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	313	27.43	90.0
MK # 2	HDWL	300	24.99	82.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARBT	
Ref Mon # 2: ARM3	
Ref Mon # 3: ARHR, P777	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 44 22.0932744
<b>Longitude</b>	91 48 10.6553124
<b>Ellipsoid Height (M):</b>	70.358 0.0080
<b>Geoid Height (M):</b>	-27.527 0.0080

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 4.05 MILES TO THE MARK ON THE RIGHT, 17' NORTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320038	<b>Date Monumented</b> 7/15/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050420
--------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	159,547.8588    0.0080
<b>Easting (M)</b>	435,665.2080    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	523,449.9334	
<b>Easting (SFT)</b>	1,429,344.9366	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	46.3016963
<b>Scale Factor</b>	0.999941218		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 94FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 3 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	90	16.76	55.0
<b>MK # 2</b>	COMBINATION POLE	277	29.26	96.0
<b>MK # 3</b>	CENTER OF CATCH BASIN MANHOLE	220	21.95	72.0

  

<b>AZ Mark Station</b>	320038A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320038A	<b>Date Monumented</b> 7/15/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050420
---------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	159,395.9287	0.0070			
<b>Easting (M)</b>	436,242.2200	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	522,951.4761				
<b>Easting (SFT)</b>	1,431,238.0168				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	59.6556005
<b>Scale Factor</b>	0.999941140		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF CATCH BASIN MANHOLE	158	5.79	19.0
<b>MK # 2</b>	COMBINATION POLE	302	42.06	138.0
<b>MK # 3</b>	TRAFFIC SIGNAL POLE	115	22.86	75.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 46 9.9035760
<b>Longitude</b>	91 35 57.0426900
<b>Ellipsoid Height (M):</b>	72.926 0.0070
<b>Geoid Height (M):</b>	-27.603

Location Description
TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 100 FEET TO THE STATION ON THE RIGHT. THE STATION IS 48 FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 37 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038A, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

<b>AZ Mark Station</b>	320038
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320039	<b>Date Monumented</b> 7/15/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050420
--------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	159,209.0769		
<b>Easting (M)</b>	439,310.4644	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	522,338.4465		
<b>Easting (SFT)</b>	1,441,304.4153		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	15	10.7203329
<b>Scale Factor</b>	0.999941039		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF 36" CONCRETE CULVERT	262	9.75	32.0
<b>MK # 2</b>	COMBINATION POLE	205	9.45	31.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 46 3.4183200
<b>Longitude</b>	91 33 54.9171720
<b>Ellipsoid Height (M):</b>	66.183 0.0000
<b>Geoid Height (M):</b>	-27.607

Location Description
TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 23 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320039A	<b>Date Monumented</b> 7/15/2019	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 69	<b>Job Number:</b> 050420
---------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	159,229.3306 0.0040
<b>Easting (M)</b>	439,768.1288 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	522,404.8955	
<b>Easting (SFT)</b>	1,442,805.9359	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	21.3251722
<b>Scale Factor</b>	0.999941048		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS 59 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 10 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	97	26.21	86.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330001	<b>Date Monumented</b> 10/27/1999	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 69	<b>Job Number:</b> 050053,050178
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,763.4259	
<b>Easting (M)</b>	409,258.2640	
<b>Elevation (M)*</b>	192.048	
<b>Northing (SFT)</b>	625,863.0065	
<b>Easting (SFT)</b>	1,342,708.1545	
<b>Elevation (SFT)*</b>	630.076	

  

<b>Convergence Angle</b>	0	3	35.2538996
<b>Scale Factor</b>	0.999969288		
<b>Elevation Adjust. Factor</b>	0.9999698624		
<b>Combined Adjust. Factor</b>	0.9999391513		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.64 KM (0.40 MI) TO THE NORTH ENTRANCE TO OZARKA COLLEGE AND THE STATION ON THE LEFT. THE STATION IS 25.85 METERS NORTHEAST OF THE CENTER OF COLLEGE DRIVE, 7.90 METERS NORTHWEST OF THE CENTER OF THE ENTRANCE TO OZARKA COLLEGE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	167	16.93	55.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 313	Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330001A	<b>Date Monumented</b> 10/27/1999	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 69	<b>Job Number:</b> 050053,050178
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Zone</b></td> <td style="width: 50%;"><b>Zone Code</b></td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td><b>Horizontal Datum</b></td> <td>NAD 83 (1997)</td> </tr> <tr> <td><b>Northing (M)</b></td> <td>191,087.8519</td> </tr> <tr> <td><b>Easting (M)</b></td> <td>409,214.8020</td> </tr> <tr> <td><b>Elevation (M)*</b></td> <td>185.321</td> </tr> <tr> <td><b>Northing (SFT)</b></td> <td>626,927.3941</td> </tr> <tr> <td><b>Easting (SFT)</b></td> <td>1,342,565.5629</td> </tr> <tr> <td><b>Elevation (SFT)*</b></td> <td>608.007</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Convergence Angle</b></td> <td style="width: 50%;">0 3 34.2512478</td> </tr> <tr> <td><b>Scale Factor</b></td> <td>0.999969706</td> </tr> <tr> <td><b>Elevation Adjust. Factor</b></td> <td>0.9999709180</td> </tr> <tr> <td><b>Combined Adjust. Factor</b></td> <td>0.9999406248</td> </tr> </table>	<b>Zone</b>	<b>Zone Code</b>	Arkansas North	301	<b>Horizontal Datum</b>	NAD 83 (1997)	<b>Northing (M)</b>	191,087.8519	<b>Easting (M)</b>	409,214.8020	<b>Elevation (M)*</b>	185.321	<b>Northing (SFT)</b>	626,927.3941	<b>Easting (SFT)</b>	1,342,565.5629	<b>Elevation (SFT)*</b>	608.007	<b>Convergence Angle</b>	0 3 34.2512478	<b>Scale Factor</b>	0.999969706	<b>Elevation Adjust. Factor</b>	0.9999709180	<b>Combined Adjust. Factor</b>	0.9999406248	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Vertical Determined By:</b></td> <td style="width: 50%;">3rd Order - 3 Wire Level</td> </tr> <tr> <td><b>Elevation Datum:</b></td> <td>NAVD 88</td> </tr> <tr> <td><b>Geoid Datum:</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td>36 3 20.4306984</td> </tr> <tr> <td><b>Longitude</b></td> <td>91 53 51.8068932</td> </tr> <tr> <td><b>Ellipsoid Height (M):</b></td> <td>157.467</td> </tr> <tr> <td><b>Geoid Height (M):</b></td> <td>-27.771</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>Location Description</b></p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF HALEY STREET AND THE STATION ON THE LEFT. THE STATION IS 8.60 METERS EAST OF THE CENTER OF COLLEGE STREET, 7.75 METERS SOUTH OF THE CENTER OF HALEY STREET AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.</p> </div>	<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level	<b>Elevation Datum:</b>	NAVD 88	<b>Geoid Datum:</b>		<b>Latitude</b>	36 3 20.4306984	<b>Longitude</b>	91 53 51.8068932	<b>Ellipsoid Height (M):</b>	157.467	<b>Geoid Height (M):</b>	-27.771
<b>Zone</b>	<b>Zone Code</b>																																								
Arkansas North	301																																								
<b>Horizontal Datum</b>	NAD 83 (1997)																																								
<b>Northing (M)</b>	191,087.8519																																								
<b>Easting (M)</b>	409,214.8020																																								
<b>Elevation (M)*</b>	185.321																																								
<b>Northing (SFT)</b>	626,927.3941																																								
<b>Easting (SFT)</b>	1,342,565.5629																																								
<b>Elevation (SFT)*</b>	608.007																																								
<b>Convergence Angle</b>	0 3 34.2512478																																								
<b>Scale Factor</b>	0.999969706																																								
<b>Elevation Adjust. Factor</b>	0.9999709180																																								
<b>Combined Adjust. Factor</b>	0.9999406248																																								
<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level																																								
<b>Elevation Datum:</b>	NAVD 88																																								
<b>Geoid Datum:</b>																																									
<b>Latitude</b>	36 3 20.4306984																																								
<b>Longitude</b>	91 53 51.8068932																																								
<b>Ellipsoid Height (M):</b>	157.467																																								
<b>Geoid Height (M):</b>	-27.771																																								

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Horizontal Datum</b></td> <td style="width: 50%;"></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF A HEADWALL	244	3.00	9.8
MK # 2	TELEPHONE JUNCTION BOX	339	9.23	30.3
MK # 3	CORNER OF A WOODEN FENCE	4	6.95	22.8

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 313</p> <p><b>Ref Mon # 2</b>    FAA 7M9 A</p> <p><b>Ref Mon # 3</b>    BATEPORT</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, &amp; 050012</td> </tr> </table>	Comments	Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012
Comments			
Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330002	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 56	<b>Job Number:</b> 050012,050011,050178
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,002.4809	
<b>Easting (M)</b>	407,249.2430	
<b>Elevation (M)*</b>	215.846	
<b>Northing (SFT)</b>	659,455.6394	
<b>Easting (SFT)</b>	1,336,116.8914	
<b>Elevation (SFT)*</b>	708.155	

  

<b>Convergence Angle</b>	0	2	48.7390924
<b>Scale Factor</b>	0.999983742		
<b>Elevation Adjust. Factor</b>	0.9999661278		
<b>Combined Adjust. Factor</b>	0.9999498704		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO EAST ON HIGHWAY 56 0.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 13.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330002 2005" ON TOP OF A 1.00 METER IRON ROD DRIVEN BELOW GROUND LEVEL.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> TRI COUNTY</p> <p><b>Ref Mon # 2</b> BUTLER</p> <p><b>Ref Mon # 3</b> FAA 7M9 A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330002A	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050012,050011,050178
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	200,389.7250	
<b>Easting (M)</b>	406,800.7850	
<b>Elevation (M)*</b>	195.911	
<b>Northing (SFT)</b>	657,445.2894	
<b>Easting (SFT)</b>	1,334,645.5755	
<b>Elevation (SFT)*</b>	642.753	

  

<b>Convergence Angle</b>	0	2	38.2894889
<b>Scale Factor</b>	0.999982805		
<b>Elevation Adjust. Factor</b>	0.9999692561		
<b>Combined Adjust. Factor</b>	0.9999520616		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	192	37.50	123.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    TRI COUNTY Ref Mon # 2    BUTLER Ref Mon # 3    FAA 7M9 A	<b>Comments</b> 3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
--	--

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    8    22.2974448
<b>Longitude</b>	91    55    27.9777864
<b>Ellipsoid Height (M):</b>	167.901
<b>Geoid Height (M):</b>	-27.876

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO SOUTH ON HIGHWAY 9 0.25 MILES TO THE STATION MARK ON THE LEFT, EAST 10.8 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 3.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330002A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

<b>AZ Mark Station</b>	330002
<b>Geodetic Azimuth</b>	36 14 36
<b>Grid Azimuth</b>	36 11 58

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330003	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050012,050011
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,259.0890	
<b>Easting (M)</b>	406,533.7650	
<b>Elevation (M)*</b>	244.649	
<b>Northing (SFT)</b>	673,420.8612	
<b>Easting (SFT)</b>	1,333,769.5273	
<b>Elevation (SFT)*</b>	802.651	

  

<b>Convergence Angle</b>	0	2	32.1581591
<b>Scale Factor</b>	0.999990516		
<b>Elevation Adjust. Factor</b>	0.9999616081		
<b>Combined Adjust. Factor</b>	0.9999521245		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	323	17.60	57.7
MK # 2	GUY	329	13.70	44.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    TRI COUNTY Ref Mon # 2    BUTLER Ref Mon # 3    FAA 7M9 A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006</td> </tr> </table>	Comments	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
Comments			
3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 3.1 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 24.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 6.40 METERS OF A COUNTY ROAD (PLEASANT RIDGE RD.) AND NORTHWEST 3.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330003 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.			

  

<b>AZ Mark Station</b>	330003A
<b>Geodetic Azimuth</b>	89 28 51
<b>Grid Azimuth</b>	89 26 19

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330003A	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050012,050011
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,265.5090	
<b>Easting (M)</b>	407,189.0590	
<b>Elevation (M)*</b>	261.785	
<b>Northing (SFT)</b>	673,441.9241	
<b>Easting (SFT)</b>	1,335,919.4377	
<b>Elevation (SFT)*</b>	858.872	

  

<b>Convergence Angle</b>	0	2	47.4187439
<b>Scale Factor</b>	0.999990526		
<b>Elevation Adjust. Factor</b>	0.9999589191		
<b>Combined Adjust. Factor</b>	0.9999494455		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	77	21.50	70.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 TRI COUNTY	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
Ref Mon # 2 BUTLER	
Ref Mon # 3 FAA 7M9 A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330004	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050012,050011
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,033.9560	
<b>Easting (M)</b>	406,561.3670	
<b>Elevation (M)*</b>	212.469	
<b>Northing (SFT)</b>	692,367.2373	
<b>Easting (SFT)</b>	1,333,860.0849	
<b>Elevation (SFT)*</b>	697.077	

  

<b>Convergence Angle</b>	0	2	32.9006447
<b>Scale Factor</b>	1.000000424		
<b>Elevation Adjust. Factor</b>	0.9999666577		
<b>Combined Adjust. Factor</b>	0.9999670817		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	299	23.20	76.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> TRI COUNTY <b>Ref Mon # 2</b> BUTLER <b>Ref Mon # 3</b> FAA 7M9 A	<b>Comments</b> 3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
--	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 7.0 MILES TO THE STATION MARK ON THE RIGHT, EAST 10.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330004 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.	

  

<b>AZ Mark Station</b>	330004A
<b>Geodetic Azimuth</b>	198 37 25
<b>Grid Azimuth</b>	198 34 52

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330004A	<b>Date Monumented</b> 10/11/2005	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050012,050011
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,470.9710	
<b>Easting (M)</b>	406,372.1090	
<b>Elevation (M)*</b>	223.409	
<b>Northing (SFT)</b>	690,520.1774	
<b>Easting (SFT)</b>	1,333,239.1609	
<b>Elevation (SFT)*</b>	732.967	

  

<b>Convergence Angle</b>	0	2	28.4808908
<b>Scale Factor</b>	0.999999422		
<b>Elevation Adjust. Factor</b>	0.9999649411		
<b>Combined Adjust. Factor</b>	0.9999643631		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	240	13.30	43.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 TRI COUNTY	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
Ref Mon # 2 BUTLER	
Ref Mon # 3 FAA 7M9 A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330005	<b>Date Monumented</b> 11/8/2006	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050178
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,593.7910	
<b>Easting (M)</b>	406,492.6000	
<b>Elevation (M)*</b>	207.933	
<b>Northing (SFT)</b>	644,991.4626	
<b>Easting (SFT)</b>	1,333,634.4718	
<b>Elevation (SFT)*</b>	682.192	

  

<b>Convergence Angle</b>	0	2	31.0517312
<b>Scale Factor</b>	0.999977202		
<b>Elevation Adjust. Factor</b>	0.9999673697		
<b>Combined Adjust. Factor</b>	0.9999445724		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Brick gate post	158	12.13	39.8
MK # 2	Telephone riser	330	31.24	102.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> 330002	3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330005A	<b>Date Monumented</b> 11/8/2006	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> 9	<b>Job Number:</b> 050178
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	196,990.0099				
<b>Easting (M)</b>	406,386.7760				
<b>Elevation (M)*</b>	199.935				
<b>Northing (SFT)</b>	646,291.3908				
<b>Easting (SFT)</b>	1,333,287.2809				
<b>Elevation (SFT)*</b>	655.952				

  

<b>Convergence Angle</b>	0	2	28.5963540
<b>Scale Factor</b>	0.999977770		
<b>Elevation Adjust. Factor</b>	0.9999686247		
<b>Combined Adjust. Factor</b>	0.9999463954		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden fence post	252	0.73	2.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARBT	3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.
Ref Mon # 2: ARPG	
Ref Mon # 3: 330002	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330006	<b>Date Monumented</b> 12/11/2008	<b>Monumented By</b> AHTD	<b>County</b> IZARD	<b>Route</b> NA	<b>Job Number:</b> 050164
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,782.8120	
<b>Easting (M)</b>	389,806.5860	
<b>Elevation (M)*</b>	109.197	
<b>Northing (SFT)</b>	632,488.2757	
<b>Easting (SFT)</b>	1,278,890.4409	
<b>Elevation (SFT)*</b>	358.257	

  

<b>Convergence Angle</b>	0	3	57.0500026
<b>Scale Factor</b>	0.999971931		
<b>Elevation Adjust. Factor</b>	0.9999828637		
<b>Combined Adjust. Factor</b>	0.9999547952		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden gate post	38	10.45	34.3
MK # 2	South end of a culvert	328	9.75	32.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARHR Ref Mon # 2    ARLR Ref Mon # 3    ARBT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    4    15.3889428
<b>Longitude</b>	92    6    47.3730156
<b>Ellipsoid Height (M):</b>	81.305
<b>Geoid Height (M):</b>	-27.892

Location Description
To reach the station from the junction of highways 5 and 56 east in Calico Rock go east on hwy-56 for 0.40 miles to "east first street", turn right and go 0.40 miles to "Boswell road". Turn right on Boswell road and go 4.00 miles to the station on the left across the railroad tracks in the center of a field entrance. 16.7 feet northeast of the center of the tracks. The station mark is a 2 1/2 inch cap stamped "330006 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330007	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 223	<b>Job Number:</b> 05_5
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of Gravel Drive	15	35.66	117.0
<b>MK # 2</b>	Combo. Pole	190	17.37	57.0
<b>MK # 3</b>	light pole	175	18.90	62.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330007A	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 223	<b>Job Number:</b> 05_5
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Asph. Drive	200	3.35	11.0
<b>MK # 2</b>	fire hydrant	190	10.67	35.0
<b>MK # 3</b>	6" Black walnut tree	0	9.14	30.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330008	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>			
<b>Horizontal Datum</b>					
<b>Northing (M)</b>	#Error				
<b>Easting (M)</b>	#Error				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td>                     Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436                 </td> </tr> </table>		Location Description	Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436
Location Description					
Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436					
<b>Easting (SFT)</b>	#Type!				
<b>Elevation (SFT)*</b>					
<b>Convergence Angle</b> ### ### #Error					
<b>Scale Factor</b> #Error					
<b>Elevation Adjust. Factor</b>					
<b>Combined Adjust. Factor</b> #Type!					

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	power pole	190	12.80	42.0	
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <b>Ref Mon # 2</b> <b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330008A	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	End of the guard rail on the piney creek bridge	265	5.80	19.0
<b>MK # 2</b>	wood fence corner with gate	155	13.40	44.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330009	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	metal brace post for gate	5	3.05	10.0
<b>MK # 2</b>	center of gate	60	7.62	25.0
<b>MK # 3</b>	guy wire	75	15.54	51.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330009A	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	metal brace post for gate	0	3.05	10.0	
MK # 2	center of gate	65	7.62	25.0	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330010	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	top (break line) of pond bank	190	8.53	28.0
MK # 2	gravel driveway	100	57.60	189.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 330010A	<b>Date Monumented</b> 10/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Izard	<b>Route</b> 56	<b>Job Number:</b> 05_5
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	wood fence corner	10	3.66	12.0	
MK # 2	power pole	15	17.07	56.0	
MK # 3	guy wire	305	15.85	52.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340002A	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 18	<b>Job Number:</b> RX0017
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	147,670.1349	
<b>Easting (M)</b>	471,447.7050	
<b>Elevation (M)*</b>	71.561	
<b>Northing (SFT)</b>	484,481.1009	
<b>Easting (SFT)</b>	1,546,741.3455	
<b>Elevation (SFT)*</b>	234.780	

  

<b>Convergence Angle</b>	0	27	33.0887265
<b>Scale Factor</b>	0.999936848		
<b>Elevation Adjust. Factor</b>	0.9999887699		
<b>Combined Adjust. Factor</b>	0.9999256186		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	180	66.22	217.3		
MK # 2	NBC IN POWER POLE	3	27.99	91.8		
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	SEDGWICK
<b>Ref Mon # 2</b>	NEWSPORT
<b>Ref Mon # 3</b>	WALDENBURG

  

Comments

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 39 42.5291904
<b>Longitude</b>	91 12 39.1489884
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-28.334

  

Location Description
<p>THE STATION IS LOCATED IN T-12-N R-2-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. OF HWY. 980, TURN LEFT (NORTH) ON HWY. 18 AND GO 1.69 KM (1.05MILES) TO A SHARP CURVE AND CO. RD. NO. 43 LEADING NORTH, GO NORTH ON CO. RD. NO. 43 FOR 0.80 KM (0.50 MILES) TO A CURVE RIGHT, GO RIGHT FOR 0.80 KM (0.50 MILES) TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.525 METERS WEST OF THE CENTERLINE OF THE CO. RD. AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34002A" AND SET ON TOP OF AN 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340003	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 384	<b>Job Number:</b> RX0017
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	148,285.8060	
<b>Easting (M)</b>	477,969.6800	
<b>Elevation (M)*</b>	71.640	
<b>Northing (SFT)</b>	486,501.0152	
<b>Easting (SFT)</b>	1,568,138.8585	
<b>Elevation (SFT)*</b>	235.039	

  

<b>Convergence Angle</b>	0	30	4.1051681
<b>Scale Factor</b>	0.999936971		
<b>Elevation Adjust. Factor</b>	0.9999887575		
<b>Combined Adjust. Factor</b>	0.9999257292		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE SW 1/4 OF SECTION 18. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT ON HWY. 18 AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. WITH HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, GO LEFT (NORTH) ON CO. RD. NO. 38 FOR 1.635 KM (1.02 MILES) TO CO. RD. NO. 204 ON THE RIGHT LEADING EAST. THE STATION IS 13.48 METERS NORTH OF THE CENTERLINE OF CO. RD. NO. 204, 9.60 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38 AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					34003A
MK # 2	NONE					180 57 22.04345
MK # 3	NONE					180 27 17.93807

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340003A	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 384	<b>Job Number:</b> RX0017
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	147,740.7960	
<b>Easting (M)</b>	477,965.3520	
<b>Elevation (M)*</b>	70.966	
<b>Northing (SFT)</b>	484,712.9282	
<b>Easting (SFT)</b>	1,568,124.6590	
<b>Elevation (SFT)*</b>	232.828	

  

<b>Convergence Angle</b>	0	30	3.8947438
<b>Scale Factor</b>	0.999936852		
<b>Elevation Adjust. Factor</b>	0.9999888632		
<b>Combined Adjust. Factor</b>	0.9999257159		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT (NORTH) AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. OF HWY. 18 AND HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, TURN LEFT (NORTH) ON CO. RD. NO. 38 AND GO 1.09 KM (0.68 MI.) TO THE STATION ON THE RIGHT. THE STATION IS 8.54 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38, 8.80 METERS SOUTH OF A FIELD ROAD AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="SEDGWICK"/></p> <p>Ref Mon # 2 <input type="text" value="NEWSPORT"/></p> <p>Ref Mon # 3 <input type="text" value="WALDENBURG"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340004	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 37	<b>Job Number:</b> RX0017
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	154,751.4779	
<b>Easting (M)</b>	481,399.8490	
<b>Elevation (M)*</b>	73.694	
<b>Northing (SFT)</b>	507,713.8071	
<b>Easting (SFT)</b>	1,579,392.6713	
<b>Elevation (SFT)*</b>	241.778	

  

<b>Convergence Angle</b>	0	31	24.8370322
<b>Scale Factor</b>	0.999938936		
<b>Elevation Adjust. Factor</b>	0.9999884351		
<b>Combined Adjust. Factor</b>	0.9999273718		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN T-13-N R-1-W IN THE SE 1/4 OF THE SW 1/4 OF SECTION 28. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 10.68 KM (6.75 MILES) TO THE STATION ON THE RIGHT IN FRONT OF A METAL SHOP BUILDING. THE STATION IS 14.54 METERS NORTH OF THE CENTERLINE OF HWY. 37, 38.78 METERS WEST OF THE CENTER OF A DRIVEWAY TO THE SHOP BUILDING AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340004" AND SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN POWER POLE		15	124.15	407.3	
MK # 2	NBC IN POWER POLE		36	148.10	485.9	
MK # 3	NBC IN POWER POLE		83	155.02	508.6	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SEDGWICK	<p>ELEVATION (NAVD88) = 242.014 FEET. CONVERTED BY VERTCON ON 03/19/2003</p>
Ref Mon # 2	NEWSPORT	
Ref Mon # 3	WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340004A	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 37	<b>Job Number:</b> RX0017
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 154,765.1890		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 480,645.2510		<b>Latitude</b> 35 43 30.1949868
<b>Elevation (M)*</b> 73.673		<b>Longitude</b> 91 6 30.9078396
<b>Northing (SFT)</b> 507,758.7909		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,576,916.9610		<b>Geoid Height (M):</b> -28.407
<b>Elevation (SFT)*</b> 241.709		

  

<b>Convergence Angle</b> 0 31 7.3679299	<b>Scale Factor</b> 0.999938944	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999884384	<b>Combined Adjust. Factor</b> 0.9999273831	THE STATION IS LOCATED IN T-13-N R-1-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 29. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 11.62 KM (7.22 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.614 METERS NORTH OF THE CENTERLINE OF HWY. 37, 15.327 METERS WEST OF THE CENTER OF A FIELD ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				<b>AZ Mark Station</b> 340004
MK # 2	NONE				<b>Geodetic Azimuth</b> 91 33 34.823188
MK # 3	NONE				<b>Grid Azimuth</b> 91 02 27.485229

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEDGWICK	ELEVATION (NAVD88) = 241.949 FEET. CONVERTED BY VERTCON ON 03/19/2003
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340005	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> CR 82	<b>Job Number:</b> RX0017
--------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	157,861.5309	
<b>Easting (M)</b>	484,552.0590	
<b>Elevation (M)*</b>	73.505	
<b>Northing (SFT)</b>	517,917.3726	
<b>Easting (SFT)</b>	1,589,734.5469	
<b>Elevation (SFT)*</b>	241.158	

  

<b>Convergence Angle</b>	0	32	38.5068241
<b>Scale Factor</b>	0.999940239		
<b>Elevation Adjust. Factor</b>	0.9999884648		
<b>Combined Adjust. Factor</b>	0.9999287045		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN T-13-N R-1W IN THE NE 1/4 OF THE NW 1/4 OF SECTION 23. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 HEADING NORTH, TAKE CO. RD. NO. 74 AND GO NORTH FOR 3.35 KM (2.08 MILES) TO AN INTERSECTION WITH COUNTY ROAD 82, GO RIGHT ( EAST ) ON CO. RD. NO. 82 FOR 0.61 KM ( 0.38 MI. ) TO THE STATION ON THE RIGHT. THE STATION IS 6.19 METERS SOUTH OF THE CENTERLINE OF CO. RD. NO. 82, 43.10 METERS SOUTHWEST OF A DRIVEWAY AND 1.0 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN POWER POLE	27	16.85	55.3		
MK # 2	NBC IN POWER POLE	145	15.15	49.7		
MK # 3	NBC IN POWER POLE	168	15.31	50.2		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEDGWICK</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    WALDENBURG</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340005A	<b>Date Monumented</b> 11/3/1993	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> CR 82	<b>Job Number:</b> RX0017
---------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	157,858.9649	
<b>Easting (M)</b>	483,924.7900	
<b>Elevation (M)*</b>	74.319	
<b>Northing (SFT)</b>	517,908.9540	
<b>Easting (SFT)</b>	1,587,676.5819	
<b>Elevation (SFT)*</b>	243.828	

  

<b>Convergence Angle</b>	0	32	23.9774902
<b>Scale Factor</b>	0.999940240		
<b>Elevation Adjust. Factor</b>	0.9999883371		
<b>Combined Adjust. Factor</b>	0.9999285778		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN T-13-N R-1-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 22. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 LEADING NORTH, TAKE CO. RD. NO. 74 NORTH FOR 3.35 KM (2.08 MILES) TO THE JCT. WITH CO. RD. NO. 82 AND THE STATION ON THE LEFT. THE STATION IS 10.512 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 74, 8.823 METERS SOUTH OF THE CENTER OF CO. RD. NO. 82 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN POWER POLE	188	28.41	93.2		
MK # 2	NBC IN POWER SERVICE POLE	223	19.81	65.0		
MK # 3	NBC IN POWER POLE	337	17.34	56.9		

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340006	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> 050013
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	155,169.0950	
<b>Easting (M)</b>	472,459.2270	
<b>Elevation (M)*</b>	73.874	
<b>Northing (SFT)</b>	509,083.9392	
<b>Easting (SFT)</b>	1,550,059.9806	
<b>Elevation (SFT)*</b>	242.370	

  

<b>Convergence Angle</b>	0	27	57.9027018
<b>Scale Factor</b>	0.999939130		
<b>Elevation Adjust. Factor</b>	0.9999884068		
<b>Combined Adjust. Factor</b>	0.9999275375		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-67 AND MAIN STREET IN TUCKERMAN, GO SOUTH ON HWY-67 ONE BLOCK TO ELM STREET, TURN LEFT (EAST) ON ELM STREET AND GO ONE BLOCK TO FRONT STREET, TURN RIGHT (SOUTH) ON FRONT STREET AND GO 32.2 METERS SOUTH TO THE STATION ON THE LEFT. 6.2 METERS EAST OF THE CENTER OF FRONT STREET AND 0.50 METERS WEST OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	216	14.10	46.3
MK # 2	NORTHEAST CORNER OF STORAGE BUILDING	304	16.50	54.1
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: BUTLER Ref Mon # 2: 480016 Ref Mon # 3: AHTD PAR1	<b>Comments</b> ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340006A	<b>Date Monumented</b> 12/20/2002	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> 050013
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	155,469.1970	
<b>Easting (M)</b>	472,627.3610	
<b>Elevation (M)*</b>	73.813	
<b>Northing (SFT)</b>	510,068.5238	
<b>Easting (SFT)</b>	1,550,611.6002	
<b>Elevation (SFT)*</b>	242.169	

  

<b>Convergence Angle</b>	0	28	1.8525879
<b>Scale Factor</b>	0.999939250		
<b>Elevation Adjust. Factor</b>	0.9999884164		
<b>Combined Adjust. Factor</b>	0.9999276671		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A 24INCH CMP	66	26.30	86.3
MK # 2	POWER POLE	25	39.50	129.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> AHTD PAR1	ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL   

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 43 55.2759996
<b>Longitude</b>	91 11 49.7179788
<b>Ellipsoid Height (M):</b>	46.122
<b>Geoid Height (M):</b>	-27.565

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-67 AND HWY-37 SOUTH IN THE TOWN OF TUCKERMAN, GO ONE BLOCK NORTH ON HWY-67 TO "HAZEL STREET" ON THE RIGHT, TURN RIGHT (EAST) ON HAZEL STREET AND GO ONE BLOCK TO FRONT STREET, TURN RIGHT (SOUTH ) ON FRONT STREET AND GO SOUTH ON FRONT STREET FOR 31.6 METERS TO THE STATION ON THE LEFT. 6.7 METERS EAST OF THE CENTER OF FRONT STREET, 31.6 METERS SOUTH OF THE HAZEL STREET AND FRONT STREET INTERSECTION AND 0.50 METERS WEST OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340007	<b>Date Monumented</b> 7/31/2006	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> 001786
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,912.9169	
<b>Easting (M)</b>	476,746.2690	
<b>Elevation (M)*</b>	75.408	
<b>Northing (SFT)</b>	534,490.1282	
<b>Easting (SFT)</b>	1,564,125.0509	
<b>Elevation (SFT)*</b>	247.400	

  

<b>Convergence Angle</b>	0	29	38.7171656
<b>Scale Factor</b>	0.999942923		
<b>Elevation Adjust. Factor</b>	0.9999881662		
<b>Combined Adjust. Factor</b>	0.9999310899		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	55.6880892
<b>Longitude</b>	91	9	3.2556996
<b>Ellipsoid Height:</b>	47.137		
<b>Grid Northing (Meters)</b>	162,913.2510		
<b>Grid Easting (Meters)</b>	476,746.2522		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	280	1.52	5.0
<b>MK # 2</b>	POWER POLE	218	26.52	87.0
<b>MK # 3</b>	FIRE HYDRANT	24	31.82	104.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT, ARPG	340007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006
<b>Ref Mon # 2</b> BUTLER	
<b>Ref Mon # 3</b> 160029, 160004A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340008	<b>Date Monumented</b> 7/31/2006	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 67	<b>Job Number:</b> 001786
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,223.7740	
<b>Easting (M)</b>	476,952.2480	
<b>Elevation (M)*</b>	75.380	
<b>Northing (SFT)</b>	535,509.9985	
<b>Easting (SFT)</b>	1,564,800.8336	
<b>Elevation (SFT)*</b>	247.310	

  

<b>Convergence Angle</b>	0	29	43.5531175
<b>Scale Factor</b>	0.999943106		
<b>Elevation Adjust. Factor</b>	0.9999881705		
<b>Combined Adjust. Factor</b>	0.9999312772		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	48	5.7164616
<b>Longitude</b>	91	8	54.9450600
<b>Ellipsoid Height:</b>	47.577		
<b>Grid Northing (Meters)</b>	163,224.1072		
<b>Grid Easting (Meters)</b>	476,952.2313		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO NORTH ON HIGHWAY 67 0.15 MILES TO THE STATION MARK ON THE RIGHT, 8.0 FEET SOUTHWEST OF OLD RAILROAD CROSSING, 44.2 FEET NORTHWEST OF CENTERLINE OF RAILROAD TRA			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NEWSPORT, ARPG <b>Ref Mon # 2</b> BUTLER <b>Ref Mon # 3</b> 160029, 160004A	<b>Comments</b> 40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340009	<b>Date Monumented</b> 7/31/2006	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 226	<b>Job Number:</b> 001786
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,018.2529	
<b>Easting (M)</b>	477,692.0870	
<b>Elevation (M)*</b>	74.207	
<b>Northing (SFT)</b>	534,835.7181	
<b>Easting (SFT)</b>	1,567,228.1221	
<b>Elevation (SFT)*</b>	243.460	

  

<b>Convergence Angle</b>	0	30	0.6582125
<b>Scale Factor</b>	0.999942980		
<b>Elevation Adjust. Factor</b>	0.9999883547		
<b>Combined Adjust. Factor</b>	0.9999313353		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	58.8395112
<b>Longitude</b>	91	8	25.5498000
<b>Ellipsoid Height:</b>	46.418		
<b>Grid Northing (Meters)</b>	163,018.5855		
<b>Grid Easting (Meters)</b>	477,692.0695		

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 0.55 MILES TO THE STATION MARK ON THE LEFT, 32.4 FEET WEST OF A FIELD ROAD, NORTH 68.3 FEET OF THE CENTERLINE OF THE HIGHWAY, AND 1.5 FEET</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	CMP	153	8.38	27.5		340008
MK # 2						286 01 30
MK # 3						285 31 30

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> NEWSPORT, ARPG <b>Ref Mon # 2</b> BUTLER <b>Ref Mon # 3</b> 160029, 160004A	40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340010	<b>Date Monumented</b> 7/31/2006	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> CR 81	<b>Job Number:</b> 001786,100880
--------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 162,395.8579		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 482,361.1090		<b>Latitude</b> 35 47 37.2722280
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 5 19.8232872
<b>Northing (SFT)</b> 532,793.7438		<b>Ellipsoid Height (M):</b> 46.625
<b>Easting (SFT)</b> 1,582,546.4051		<b>Geoid Height (M):</b> -27.650
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 31 48.7319690	<b>Scale Factor</b> 0.999942594	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO COUNTY ROAD 81 ON THE RIGHT, TURN RIGHT AND GO 0.30 MILE TO THE STATION MARK ON THE LEFT, 22.0 FEET EAST OF THE CENTERLINE OF
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> NAD 83 (1986)	<b>Latitude</b> 35 47 37.2828084	<b>Longitude</b> 91 5 19.8242412	<b>Ellipsoid Height:</b> 46.514
<b>Grid Northing (Meters)</b> 162,396.1838			
<b>Grid Easting (Meters)</b> 482,361.0820			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	74	30.57	100.3
MK # 2	POWER POLE WITH GUY	321	17.37	57.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 NEWSPORT, ARPG	
Ref Mon # 2 BUTLER	
Ref Mon # 3 160029, 160004A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340010A	<b>Date Monumented</b> 7/31/2006	<b>Monumented By</b> AHTD	<b>County</b> JACKSON	<b>Route</b> 226	<b>Job Number:</b> 001786
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	162,879.5150	
<b>Easting (M)</b>	482,484.2920	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	534,380.5421	
<b>Easting (SFT)</b>	1,582,950.5480	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	51.6904736
<b>Scale Factor</b>	0.999942873		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	47	52.9385604
<b>Longitude</b>	91	5	14.7399792
<b>Ellipsoid Height:</b>	47.076		
<b>Grid Northing (Meters)</b>	162,879.8419		
<b>Grid Easting (Meters)</b>	482,484.2660		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.3 FEET OF THE CENTERLINE OF THE HIGHWAY, 33.1 FEET EAST OF COUNTY ROAD 81 AND 1.5 FE</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    NEWSPORT, ARPG</p> <p>Ref Mon # 2    BUTLER</p> <p>Ref Mon # 3    160029, 160004A</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340011	<b>Date Monumented</b> 12/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 367	<b>Job Number:</b> 005836
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,897.8150	
<b>Easting (M)</b>	461,707.5250	
<b>Elevation (M)*</b>	71.249	
<b>Northing (SFT)</b>	465,543.0814	
<b>Easting (SFT)</b>	1,514,785.4383	
<b>Elevation (SFT)*</b>	233.758	

  

<b>Convergence Angle</b>	0	23	46.8136766
<b>Scale Factor</b>	0.999936040		
<b>Elevation Adjust. Factor</b>	0.9999888188		
<b>Combined Adjust. Factor</b>	0.9999248595		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 367 and 14 just northeast of Newport go west on highway 367 for 0.90 miles to the station on the right at the end of a bridge. 17.5 feet north of the center of hwy-367 and 4.40 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340011 2010" set on top of a 5/8 inch by 4 foot long rebar and 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest corner of a bridge	183	2.43	8.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBT</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    Newport</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340011A	<b>Date Monumented</b> 12/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 14	<b>Job Number:</b> 005836
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	142,456.9930		
<b>Easting (M)</b>	461,052.0110		
<b>Elevation (M)*</b>	68.636		
<b>Northing (SFT)</b>	467,377.6512		
<b>Easting (SFT)</b>	1,512,634.8061		
<b>Elevation (SFT)*</b>	225.184		

  

<b>Convergence Angle</b>	0	23	31.7457203
<b>Scale Factor</b>	0.999936084		
<b>Elevation Adjust. Factor</b>	0.9999892289		
<b>Combined Adjust. Factor</b>	0.9999253135		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	99	14.63	48.0
<b>MK # 2</b>	power pole with guy wire	43	18.29	60.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> Newport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340012	<b>Date Monumented</b> 12/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> NA	<b>Job Number:</b> 005836
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	141,193.1210
<b>Easting (M)</b>	464,555.2300
<b>Elevation (M)*</b>	68.900
<b>Northing (SFT)</b>	463,231.0978
<b>Easting (SFT)</b>	1,524,128.2838
<b>Elevation (SFT)*</b>	226.049

  

<b>Convergence Angle</b>	0 24 52.5387285
<b>Scale Factor</b>	0.999935994
<b>Elevation Adjust. Factor</b>	0.9999891875
<b>Combined Adjust. Factor</b>	0.9999251822

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
<b>MK # 1</b>	Combination pole	154	4.88    16.0
<b>MK # 2</b>	18 inch RCP	175	4.57    15.0
<b>MK # 3</b>	Combination pole with arm	76	10.67    35.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ewsport	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340012A	<b>Date Monumented</b> 12/27/2010	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> NA	<b>Job Number:</b> 005836
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	141,419.3260		
<b>Easting (M)</b>	464,850.7040		
<b>Elevation (M)*</b>	69.531		
<b>Northing (SFT)</b>	463,973.2387		
<b>Easting (SFT)</b>	1,525,097.6847		
<b>Elevation (SFT)*</b>	228.120		

  

<b>Convergence Angle</b>	0	24	59.4079646
<b>Scale Factor</b>	0.999936007		
<b>Elevation Adjust. Factor</b>	0.9999890884		
<b>Combined Adjust. Factor</b>	0.9999250961		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole with guy wire	115	10.97	36.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> Newport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340013	<b>Date Monumented</b> 4/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 14	<b>Job Number:</b> 050272
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	136,838.2610				
<b>Easting (M)</b>	476,301.9734				
<b>Elevation (M)*</b>	69.033				
<b>Northing (SFT)</b>	448,943.5280				
<b>Easting (SFT)</b>	1,562,667.3911				
<b>Elevation (SFT)*</b>	226.486				

  

<b>Convergence Angle</b>	0	29	23.2544940
<b>Scale Factor</b>	0.999935998		
<b>Elevation Adjust. Factor</b>	0.9999891666		
<b>Combined Adjust. Factor</b>	0.9999251653		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	175	3.00	9.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.
Ref Mon # 2    ARPG	
Ref Mon # 3    ZME1	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35   33   49.7578608
<b>Longitude</b>	91   9   29.8279152
<b>Ellipsoid Height (M):</b>	41.641
<b>Geoid Height (M):</b>	-27.394

  

Location Description
<p>To reach the station from the post office in Amagon go west on highway 14 for 2.8 miles to the station on the left at the intersection of highway 14 and county road 145. 32.0 feet east of the center of county road 145, 40 feet south of the center of highway 14 and 2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340013 2012" set on top of a 5/8 inch by 4 foot long rebar and is .20 feet below the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340013A	<b>Date Monumented</b> 4/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 14	<b>Job Number:</b> 050272
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	136,903.5890		
<b>Easting (M)</b>	476,850.1687		
<b>Elevation (M)*</b>	67.430		
<b>Northing (SFT)</b>	449,157.8582		
<b>Easting (SFT)</b>	1,564,465.9285		
<b>Elevation (SFT)*</b>	221.226		

  

<b>Convergence Angle</b>	0	29	35.9350568
<b>Scale Factor</b>	0.999935995		
<b>Elevation Adjust. Factor</b>	0.9999894182		
<b>Combined Adjust. Factor</b>	0.9999254139		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL field entrance	263	8.00	26.2
MK # 2	power pole	356	1.25	4.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARBT Ref Mon # 2    ARPG Ref Mon # 3    ZME1 / NEWSPORT	<b>Comments</b> DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.
--	---

  

Location Description	
To reach the station from the post office in Amagon go west on HWY-14 for 2.45 miles to the station on the right. 42.6 feet north of the center of HWY-14, 26.3 feet east of a field entrance and 4 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "340013A 2012" set on top of a 5/8 inch by 4 foot rebar and is 0.20 feet below the surface.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35    33    51.7249908
<b>Longitude</b>	91    9    8.0362296
<b>Ellipsoid Height (M):</b>	40.037
<b>Geoid Height (M):</b>	-27.396

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340014	<b>Date Monumented</b> 4/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 14	<b>Job Number:</b> 050272
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	136,130.5942	
<b>Easting (M)</b>	481,523.3994	
<b>Elevation (M)*</b>	68.569	
<b>Northing (SFT)</b>	446,621.7911	
<b>Easting (SFT)</b>	1,579,798.0195	
<b>Elevation (SFT)*</b>	224.964	

  

<b>Convergence Angle</b>	0	31	23.7600514
<b>Scale Factor</b>	0.999936048		
<b>Elevation Adjust. Factor</b>	0.9999892394		
<b>Combined Adjust. Factor</b>	0.9999252881		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	264	1.30	4.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARBT	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.
Ref Mon # 2: ARPG	
Ref Mon # 3: ZME1 / Newport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340014A	<b>Date Monumented</b> 4/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Jackson	<b>Route</b> 14	<b>Job Number:</b> 050272
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	136,617.4965
<b>Easting (M)</b>	481,782.8255
<b>Elevation (M)*</b>	69.287
<b>Northing (SFT)</b>	448,219.2364
<b>Easting (SFT)</b>	1,580,649.1533
<b>Elevation (SFT)*</b>	227.320

  

<b>Convergence Angle</b>	0 31 29.8573527
<b>Scale Factor</b>	0.999936014
<b>Elevation Adjust. Factor</b>	0.9999891267
<b>Combined Adjust. Factor</b>	0.9999251414

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>				3rd Order - Digital Levels			
<b>Elevation Datum:</b>				NAVD 88			
<b>Geoid Datum:</b>				GEOID96			
<b>Latitude</b>				35	33	41.0196960	
<b>Longitude</b>				91	5	52.2595212	
<b>Ellipsoid Height (M):</b>				41.887			
<b>Geoid Height (M):</b>				-27.404			

  

Location Description
<p>to reach the station from the post office in Amagon go east on HWY-14 for 0.65 miles to the station on the right, 42 feet south of the center of the highway, 20 feet east of a field entrance and 3.2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340014A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.15 feet below the surface.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ZME1 / Newport	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350001	<b>Date Monumented</b> 6/20/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> 20071,020716
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	572,190.1169	0.0030			
<b>Easting (M)</b>	403,221.0793	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,877,260.4085				
<b>Easting (SFT)</b>	1,322,901.1577				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	1	10.4376062
<b>Scale Factor</b>	0.999923647		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	13	8.9370336
<b>Longitude</b>	91	57	54.1449900
<b>Ellipsoid Height:</b>	36.777		
<b>Grid Northing (Meters)</b>	572,190.3779		
<b>Grid Easting (Meters)</b>	403,221.1830		

  

Location Description				
ON HWY. 65 AT PINE BLUFF, THE STATION IS 71 FEET EAST OF THE CENTERLINE OF THE NORTHBOUND LANES, 4 FEET WEST OF A WITNESS POST, 9 FEET NORTH AND 24 FEET WEST OF A R/W MARKER.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Old point number 90350001 SUPERCEDED GEOID HT. -26.655m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARMO, ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350002	<b>Date Monumented</b> 6/20/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> 20071,020716
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	571,820.6026	0.0030
<b>Easting (M)</b>	403,212.3751	0.0030
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	1,876,048.0937	
<b>Easting (SFT)</b>	1,322,872.6006	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	10.2445156
<b>Scale Factor</b>	0.999923462		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	12	56.9440152
<b>Longitude</b>	91	57	54.4902552
<b>Ellipsoid Height:</b>	36.382		
<b>Grid Northing (Meters)</b>	571,820.8639		
<b>Grid Easting (Meters)</b>	403,212.4720		

**Location Description**

ON HWY. 65 AT PINE BLUFF, THE STATION IS 61.5 FEET EAST OF THE CENTERLINE OF THE NORTHBOUND LANES, 6 FEET WEST OF A WITNESS POST, 6.5 FEET WEST OF A R/W FENCE, 7 FEET WEST AND 12 FEET NORTH OF A R/W MARKER.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARGS <b>Ref Mon # 3</b> ARLR, ARMO, ARPB	Old point number 90350002 SUPERCEDED GEOID HT. -26.652m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350003	<b>Date Monumented</b> 6/20/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 63	<b>Job Number:</b> 20071
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	575,237.9379	
<b>Easting (M)</b>	408,695.1730	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,887,259.8013	
<b>Easting (SFT)</b>	1,340,860.7468	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	10.2048780
<b>Scale Factor</b>	0.999925301		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> CORPS. OF ENG. 4125	Old point number 90350003
<b>Ref Mon # 2</b> CORPS. OF ENG. 4128	
<b>Ref Mon # 3</b> CORPS. OF ENG. 3063	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 14 47.7374244
<b>Longitude</b>	91 54 20.1607236
<b>Ellipsoid Height (M):</b>	35.856
<b>Geoid Height (M):</b>	-26.697

Location Description
AT LOCK AND DAM NO. 4 NEAR THE SOUTHWEST CORNER OF A CONCRETE PARKING LOT, THE STATION IS 7.5 FEET NORTH OF A WITNESS POST AND 2 FEET WEST OF THE EDGE OF THE CONCRETE PARKING LOT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350004	<b>Date Monumented</b> 6/20/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 66	<b>Job Number:</b> 20071
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	575,338.1080	
<b>Easting (M)</b>	409,172.1440	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,887,588.4427	
<b>Easting (SFT)</b>	1,342,425.6091	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	20.6406319
<b>Scale Factor</b>	0.999925359		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CORPS. OF ENG. 4125 <b>Ref Mon # 2</b> CORPS. OF ENG. 4128 <b>Ref Mon # 3</b> CORPS. OF ENG. 3063	Old point number 90350004     

  

Location Description			
AT PINE BLUFF ON THE EAST SIDE OF LOCK AND DAM NO. 4, AT THE CORPS OF ENGINEERS PARK, THE STATION IS WEST OF THE FIRST PARKING AREA AND SOUTH OF THE LOCK BETWEEN TWO PICNIC TABLES.			

  

<b>Vertical Determined By:</b>	NONE		
<b>Elevation Datum:</b>	NONE		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	14	50.9739000
<b>Longitude</b>	91	54	1.5151500
<b>Ellipsoid Height (M):</b>	33.855		
<b>Geoid Height (M):</b>	-26.700		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350005	<b>Date Monumented</b> 6/21/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 20071
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	583,792.3959	
<b>Easting (M)</b>	412,643.4460	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,915,325.5522	
<b>Easting (SFT)</b>	1,353,814.3724	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	36.8234794
<b>Scale Factor</b>	0.999931170		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	
<b>Ref Mon # 1</b>	CORPS. OF ENG. 4125
<b>Ref Mon # 2</b>	CORPS. OF ENG. 4128
<b>Ref Mon # 3</b>	CORPS. OF ENG. 3063

  

Comments
Old point number 90350005

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 19 25.2352416
<b>Longitude</b>	91 51 45.3991680
<b>Ellipsoid Height (M):</b>	37.138
<b>Geoid Height (M):</b>	-26.782

Location Description
<p>NEAR ALTHEIMER ON HWY. 79, THE STATION IS 0.80 MILES NORTHEAST FROM THE JCT. OF HWY. 79B ON THE LEFT SIDE OF THE HWY., 0.20 MILES FROM STATION 90350006, 24 FEET NORTH OF THE CENTERLINE OF HWY. 79, 45 FEET NORTH OF A PAVED SHOULDER AND 3 FEET SOUTH OF A WITNESS POST.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350006	<b>Date Monumented</b> 6/21/1990	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 20071
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 584,040.5319		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 412,922.8260		<b>Latitude</b> 34 19 33.2763420
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 51 34.4567592
<b>Northing (SFT)</b> 1,916,139.6451		<b>Ellipsoid Height (M):</b> 36.703
<b>Easting (SFT)</b> 1,354,730.9716		<b>Geoid Height (M):</b> -26.786
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 4 42.9478437	<b>Location Description</b> NEAR ALTHEIMER ON HWY 79, THE STATION IS 1.00 MILE NORTHEAST FROM THE JCT. 79B, ON THE LEFT SIDE OF THE HWY., 0.20 MILES FROM STATION 90350005, 25 FEET NORTH OF THE CENTERLINE OF HWY. 79, 5 FEET NORTH OF A PAVED SHOULDER AND 3.3 FEET SOUTH OF WITNESS POST.
<b>Scale Factor</b> 0.999931367	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 CORPS. OF ENG. 4125	Old point number 90350006
Ref Mon # 2 CORPS. OF ENG. 4128	
Ref Mon # 3 CORPS. OF ENG. 3063	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350007	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 63	<b>Job Number:</b> 001930, RX0025, 020353
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,168.7350	
<b>Easting (M)</b>	400,979.1590	
<b>Elevation (M)*</b>	65.238	

  

<b>Northing (SFT)</b>	1,847,662.7581	
<b>Easting (SFT)</b>	1,315,545.7908	
<b>Elevation (SFT)*</b>	214.034	

  

<b>Convergence Angle</b>	0	0	21.3914996
<b>Scale Factor</b>	0.999920091		
<b>Elevation Adjust. Factor</b>	0.9999897622		
<b>Combined Adjust. Factor</b>	0.9999098540		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CORRIGATED METAL PIPE	207	6.70	22.0
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	171	24.20	79.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 8 16.1402748
<b>Longitude</b>	91 59 21.7797828
<b>Ellipsoid Height (M):</b>	38.438
<b>Geoid Height (M):</b>	-25.785

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.136 KM (2.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 1.15 METERS WEST OF THE EDGE OF AN ASPHALT PARKING LOT FOR A USED CAR LOT, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY OF 2002.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350007A	<b>Date Monumented</b> 3/23/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 15	<b>Job Number:</b> RX0025
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	562,812.6449	
<b>Easting (M)</b>	400,921.0900	
<b>Elevation (M)*</b>	65.409	
<b>Northing (SFT)</b>	1,846,494.4858	
<b>Easting (SFT)</b>	1,315,355.2761	
<b>Elevation (SFT)*</b>	214.596	

  

<b>Convergence Angle</b>	0	0	20.1221191
<b>Scale Factor</b>	0.999919992		
<b>Elevation Adjust. Factor</b>	0.9999897353		
<b>Combined Adjust. Factor</b>	0.9999097281		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	285	1.50	4.9
<b>MK # 2</b>	NORTHEAST CORNER OF BUILDING	215	17.50	57.4
<b>MK # 3</b>	16" CONCRETE CULVERT	150	4.50	14.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> TARRY	
<b>Ref Mon # 2</b> 93400004 AHTD	
<b>Ref Mon # 3</b> GLEN LAKE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 8 4.5828492
<b>Longitude</b>	91 59 24.0477864
<b>Ellipsoid Height (M):</b>	38.808
<b>Geoid Height (M):</b>	-26.601

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 6.61 KM (4.11 MILES) TO A NEW BRIDGE OVER BAYOU BARTHOLOMEW, CONTINUE AHEAD ON HWY. 15 FOR 5.18 KM (3.22 MILES) TO THE STATION ON THE RIGHT JUST NORTHEAST OF "J&amp;B LIQUOR STORE". THE STATION IS 10.90 METERS WEST OF THE CENTER OF HWY. 15, 5.30 METERS NORTH OF THE EDGE OF AN ASPHALT PARKING LOT AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350010	<b>Date Monumented</b> 4/17/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> R20051
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	568,402.1710	
<b>Easting (M)</b>	395,412.5040	
<b>Elevation (M)*</b>	66.200	
<b>Northing (SFT)</b>	1,864,832.7894	
<b>Easting (SFT)</b>	1,297,282.5235	
<b>Elevation (SFT)*</b>	217.191	

  

<b>Convergence Angle</b>	0	1	40.2777283
<b>Scale Factor</b>	0.999921909		
<b>Elevation Adjust. Factor</b>	0.9999896112		
<b>Combined Adjust. Factor</b>	0.9999115210		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 79 (CAMDEN ROAD) AND 28TH STREET, GO SOUTH ON HWY. 79 FOR 1.44 KM (0.90 MILES) TO THE JCT. WITH THE NEW HWY. 65 BYPASS THAT IS UNDER CONSTRUCTION AT THIS TIME, TURN LEFT (EAST) ON THE BYPASS AND GO 1.40KM (0.87 MILES) TO THE STATION ON THE RIGHT NEAR A RAILROAD BRIDGE (NO. 6263B) OVER NEVINS CREEK. THE STATION IS 8.0 METERS WEST OF THE WEST RAIL OF A RAILROAD TRACK, 23.4 METERS NORTHWEST OF THE NORTHWEST END OF THE RAILROAD BRIDGE AND 1.00 METERS NORTH OF A WITNESS POST SET BY A GUY WIRE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350010" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	10" PINE TREE			20.60	67.6	
MK # 2	GUY POLE			4.55	14.9	
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: PINE BLUFF</p> <p>Ref Mon # 2: 130008 AHTD</p> <p>Ref Mon # 3: GLEN LAKE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350010A	<b>Date Monumented</b> 4/17/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> R20051
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	568,874.3210	
<b>Easting (M)</b>	394,912.0520	
<b>Elevation (M)*</b>	71.911	
<b>Northing (SFT)</b>	1,866,381.8348	
<b>Easting (SFT)</b>	1,295,640.6239	
<b>Elevation (SFT)*</b>	235.928	

  

<b>Convergence Angle</b>	0	1	51.2226339
<b>Scale Factor</b>	0.999922106		
<b>Elevation Adjust. Factor</b>	0.9999887149		
<b>Combined Adjust. Factor</b>	0.9999108218		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 79 (CAMDEN ROAD) AND 28TH STREET IN PINE BLUFF, GO SOUTH ON HWY. 79 FOR 1.44 KM (0.90 MILES) TO THE JCT. WITH THE NEW HWY. 65 BYPASS THAT IS CURRENTLY UNDER CONSTRUCTION, TURN LEFT ON THE NEW BYPASS AND GO EAST FOR 0.72 KM (0.45 MILES) TO THE STATION ON THE RIGHT AT THE TOP OF THE BACK SLOPE OF THE ROAD DITCH ON AN OLD ASPHALT DRIVE. THE STATION IS 6.45 METERS NORTHEAST OF A WOODEN BRACE POST, 31.0 METERS NORTHWEST OF A CROSSTIE GATE POST AND 5.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	4" WOODEN BRACE POST		6.45	21.2	
MK # 2	CROSSTIE GATE POST		31.00	101.7	
MK # 3	POWER POLE		5.65	18.5	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GLEN LAKE</p> <p>Ref Mon # 2: 130008 AHTD</p> <p>Ref Mon # 3: PINE BLUFF</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350011	<b>Date Monumented</b> 4/17/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> R20051
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	568,143.9819	
<b>Easting (M)</b>	396,378.5130	
<b>Elevation (M)*</b>	65.072	
<b>Northing (SFT)</b>	1,863,985.7140	
<b>Easting (SFT)</b>	1,300,451.8381	
<b>Elevation (SFT)*</b>	213.490	

  

<b>Convergence Angle</b>	0	1	19.1596468
<b>Scale Factor</b>	0.999921804		
<b>Elevation Adjust. Factor</b>	0.9999897882		
<b>Combined Adjust. Factor</b>	0.9999115930		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 (OLIVE ST.) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. OF 27TH AND HAZEL STREETS, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO A JCT. WITH 31ST STREET, TURN RIGHT AND WEST ON 31ST STREET AND GO 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT ON "OLD WARREN ROAD" AND GO 1.93 KM (1.20 MILES) TO THE STATION ON THE LEFT AT THE SOUTH EAST CORNER OF A BRIDGE OVER BAYOU BARTHOLOMEW. THE STATION IS 3.65 METERS SOUTHEAST OF THE BRIDGE END, 10.3 METERS EAST OF THE CENTER OF "OLD WARREN ROAD" AND 13.3 METERS SOUTHWEST OF A FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER		13.30	43.6
MK # 2	BRIDGE END		3.65	12.0
MK # 3	7TH GUARD RAIL POST FROM BRIDGE END		1.70	5.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="GLEN LAKE"/> <b>Ref Mon # 2</b> <input type="text" value="130008 AHTD"/> <b>Ref Mon # 3</b> <input type="text" value="PINE BLUFF"/>	NGVD29 = 65.158 meters

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350011A	<b>Date Monumented</b> 4/17/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> I530	<b>Job Number:</b> R20051
---------------------------	-------------------------------------	------------------------------	----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	567,905.4859	
<b>Easting (M)</b>	396,109.7150	
<b>Elevation (M)*</b>	69.463	
<b>Northing (SFT)</b>	1,863,203.2483	
<b>Easting (SFT)</b>	1,299,569.9566	
<b>Elevation (SFT)*</b>	227.897	

  

<b>Convergence Angle</b>	0	1	25.0329723
<b>Scale Factor</b>	0.999921708		
<b>Elevation Adjust. Factor</b>	0.9999890991		
<b>Combined Adjust. Factor</b>	0.9999108080		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 15 (OLIVE STREET) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. WITH HAZEL STREET, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO THE JCT. WITH 31TH STREET, GO RIGHT AND WEST ON 31TH STREET FOR 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT AND SOUTH ON "OLD WARREN ROAD" AND GO 2.28 KM (1.42 MILES) TO THE STATION ON THE LEFT AT THE JUNCTION OF "BOBO ROAD" AND "OLD WARREN ROAD". THE STATION IS 13.3 METERS NORTH OF THE CENTER OF "BOBO ROAD", 19.3 METERS WEST OF THE CENTER OF "OLD WARREN ROAD" AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE		23.50	77.1
MK # 2	CONCRETE PIPE		8.90	29.2
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  NGVD29 = 69.549 meters
Ref Mon # 1	GLEN LAKE	
Ref Mon # 2	130008 AHTD	
Ref Mon # 3	PINE BLUFF	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350012	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> R20091
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	559,948.2149	
<b>Easting (M)</b>	422,544.1750	
<b>Elevation (M)*</b>	57.504	
<b>Northing (SFT)</b>	1,837,096.7684	
<b>Easting (SFT)</b>	1,386,297.0141	
<b>Elevation (SFT)*</b>	188.661	

  

<b>Convergence Angle</b>	0	8	12.3494196
<b>Scale Factor</b>	0.999919303		
<b>Elevation Adjust. Factor</b>	0.9999909758		
<b>Combined Adjust. Factor</b>	0.9999102796		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 3.219 KM (2.0 MILES) TO THE STATION ON THE LEFT JUST BEFORE REACHING THE TAMO WATER TOWER. THE STATION IS 29.70 METERS EAST OF THE EASTERN MOSTRAIL OF THE MISSOURI PACIFIC RAILROAD, 17.50 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> TARRY 1940 <b>Ref Mon # 2</b> DIST2 1995 <b>Ref Mon # 3</b> NONE	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "W 289 1984".

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350012A	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> R20091
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	560,616.5040	
<b>Easting (M)</b>	422,076.6380	
<b>Elevation (M)*</b>	58.025	
<b>Northing (SFT)</b>	1,839,289.3135	
<b>Easting (SFT)</b>	1,384,763.1032	
<b>Elevation (SFT)*</b>	190.370	

  

<b>Convergence Angle</b>	0	8	2.1728849
<b>Scale Factor</b>	0.999919444		
<b>Elevation Adjust. Factor</b>	0.9999908941		
<b>Combined Adjust. Factor</b>	0.9999103388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE POST OFFICE IN THE SMALL TOWN OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 4.023 KM (2.50 MILES) TO THE STATION ON THE RIGHT JUST PAST THE "TAMO RIVER ROAD". THE STATION IS 17.10 METERS NORTHEAST OF THE CENTER OF HWY. 65, 16.80 METERS SOUTHEAST OF NOAA BENCH MARK "W 289 1984", 10.0 METERS WEST OF THE CENTER OF "TAMO RIVER ROAD" AND 1.35 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" METAL PIPE	160	15.20	49.9
MK # 2	POWER POLE	327	16.50	54.1
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS FROM STATION "W 289 1984".
Ref Mon # 1	TARRY 1940	
Ref Mon # 2	DIST2 1995	
Ref Mon # 3	NONE	

  

<b>AZ Mark Station</b>	350012
<b>Geodetic Azimuth</b>	145 09 25.82122
<b>Grid Azimuth</b>	145 01 23.65860

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350013	<b>Date Monumented</b> 5/29/1996	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 425	<b>Job Number:</b> R20149
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	562,998.9205		
<b>Easting (M)</b>	408,852.9964		
<b>Elevation (M)*</b>	60.402		
<b>Northing (SFT)</b>	1,847,105.6250		
<b>Easting (SFT)</b>	1,341,378.5390		
<b>Elevation (SFT)*</b>	198.169		

  

<b>Convergence Angle</b>	0	3	13.4061901
<b>Scale Factor</b>	0.999920043		
<b>Elevation Adjust. Factor</b>	0.9999905210		
<b>Combined Adjust. Factor</b>	0.9999105648		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	156	18.65	61.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: DIST2	
Ref Mon # 2: GLEN LAKE 1940	
Ref Mon # 3: 93400003	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 8 10.4955396
<b>Longitude</b>	91 54 14.4409356
<b>Ellipsoid Height (M):</b>	33.691
<b>Geoid Height (M):</b>	-26.625

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM. (4.30 ML.) EAST OF PINE BLUFF, GO SOUTH ON HWY-425 FOR 7.08 KM. (4.40 ML.) TO THE STATION ON THE RIGHT. 14.10 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-425 AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350013 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	350013A
<b>Geodetic Azimuth</b>	311 42 06.1215
<b>Grid Azimuth</b>	311 38 52.7029

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350013A	<b>Date Monumented</b> 5/29/1996	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 425	<b>Job Number:</b> R20149
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	563,377.2799	
<b>Easting (M)</b>	408,427.5580	
<b>Elevation (M)*</b>	60.386	
<b>Northing (SFT)</b>	1,848,346.9591	
<b>Easting (SFT)</b>	1,339,982.7465	
<b>Elevation (SFT)*</b>	198.116	

  

<b>Convergence Angle</b>	0	3	4.1192721
<b>Scale Factor</b>	0.999920150		
<b>Elevation Adjust. Factor</b>	0.9999905236		
<b>Combined Adjust. Factor</b>	0.9999106743		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	292	36.45	119.6
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	332	43.33	142.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DIST2	
<b>Ref Mon # 2</b> GLEN LAKE 1940	
<b>Ref Mon # 3</b> 93400003	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    8    22.7885784
<b>Longitude</b>	91    54    31.0338828
<b>Ellipsoid Height (M):</b>	33.679
<b>Geoid Height (M):</b>	-26.625

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM. (4.30 ML.) EAST OF PINE BLUFF, GO SOUTH ON HWY-425 FOR 6.52 KM. (4.05 ML.) TO THE STATION ON THE RIGHT JUST PAST A PAVED ROAD RIGHT. 15.55 METERS SOUTHWEST OF THE CENTER OF HWY-425 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350013A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	350013
<b>Geodetic Azimuth</b>	131 41 56.8097
<b>Grid Azimuth</b>	131 38 52.7029

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350014	<b>Date Monumented</b> 10/26/1998	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 2807
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	581,131.7529				
<b>Easting (M)</b>	401,659.2300				
<b>Elevation (M)*</b>	64.825				
<b>Northing (SFT)</b>	1,906,596.4260				
<b>Easting (SFT)</b>	1,317,776.9904				
<b>Elevation (SFT)*</b>	212.680				

  

<b>Convergence Angle</b>	0	0	36.3179801
<b>Scale Factor</b>	0.999929156		
<b>Elevation Adjust. Factor</b>	0.9999898269		
<b>Combined Adjust. Factor</b>	0.9999189837		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CONCRETE HEADWALL	69	22.36	73.4
MK # 2	WEST END OF CMP	58	34.00	111.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD LR1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ALMYPORT AZ MK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD LR1	Ref Mon # 2	ALMYPORT AZ MK	Ref Mon # 3	K 124	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD LR1						
Ref Mon # 2	ALMYPORT AZ MK						
Ref Mon # 3	K 124						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 17 59.1527184
<b>Longitude</b>	91 58 55.1106228
<b>Ellipsoid Height (M):</b>	38.890
<b>Geoid Height (M):</b>	-25.935

Location Description
TO REACH THE STATION FROM THE NORTHEAST END OF THE U.S. HIGHWAY 79 BRIDGE OVER THE ARKANSAS RIVER, LOCATED ABOUT 3.00 KM (1.86 MI) NORTH OF PINE BLUFF, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 1.38 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.63 METERS WEST OF THE CENTER OF GRAVEL FIELD ENTRANCE, 21.05 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 63mm CAP STAMPED "350014 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	350014A
<b>Geodetic Azimuth</b>	239 47 55.04580
<b>Grid Azimuth</b>	239 47 18.69594

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350014A	<b>Date Monumented</b> 10/26/1998	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 2807
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	580,883.2999	
<b>Easting (M)</b>	401,232.5420	
<b>Elevation (M)*</b>	65.141	
<b>Northing (SFT)</b>	1,905,781.2931	
<b>Easting (SFT)</b>	1,316,377.0982	
<b>Elevation (SFT)*</b>	213.717	

  

<b>Convergence Angle</b>	0	0	26.9777280
<b>Scale Factor</b>	0.999928977		
<b>Elevation Adjust. Factor</b>	0.9999897774		
<b>Combined Adjust. Factor</b>	0.9999187551		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE NORTHEAST END OF THE U.S. HIGHWAY 79 BRIDGE OVER THE ARKANSAS RIVER, LOCATED ABOUT 3.00 KM (1.86 MI) NORTH OF PINE BLUFF, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.72 METERS NORTHWEST OF A GUARD RAIL SET IN THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350014A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="AHTD LR1"/></p> <p>Ref Mon # 2 <input type="text" value="ALMYPORT AZ MK"/></p> <p>Ref Mon # 3 <input type="text" value="K 124"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350015	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> 001930, 020353
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,680.5450	
<b>Easting (M)</b>	403,382.4030	
<b>Elevation (M)*</b>	60.318	
<b>Northing (SFT)</b>	1,836,218.5881	
<b>Easting (SFT)</b>	1,323,430.4338	
<b>Elevation (SFT)*</b>	197.893	

  

<b>Convergence Angle</b>	0	1	13.8674205
<b>Scale Factor</b>	0.999919255		
<b>Elevation Adjust. Factor</b>	0.9999905342		
<b>Combined Adjust. Factor</b>	0.9999097900		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 3.042 KM (1.89 MI) TO THE JUNCTION OF PINEBERGEN ROAD AND GIBB ANDERSON ROAD AND THE STATION DIRECTLY IN FRONT OF YOUR LINE OF TRAVEL. THE STATION IS 7.00 METERS NORTHEAST OF THE CENTER OF GIBB ANDERSON ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350016A	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 63	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	557,476.2890	
<b>Easting (M)</b>	399,707.3100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,828,986.7915	
<b>Easting (SFT)</b>	1,311,373.0662	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	6.3904905
<b>Scale Factor</b>	0.999918881		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	247	19.10	62.7
MK # 2	POWER POLE	239	15.30	50.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> K 124 <b>Ref Mon # 2</b> AHTD LITTLE ROCK <b>Ref Mon # 3</b> AHTD MON 1	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 5 11.3812116
<b>Longitude</b>	92 0 11.4178968
<b>Ellipsoid Height (M):</b>	48.753
<b>Geoid Height (M):</b>	-25.750

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 54 EAST, LOCATED ABOUT 9.656 KM (6.00 MI) SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.66 KM (0.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.65 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 1.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350017	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 63	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	562,570.2620	
<b>Easting (M)</b>	400,879.7690	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,845,699.2679	
<b>Easting (SFT)</b>	1,315,219.7088	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	19.2189281
<b>Scale Factor</b>	0.999919927		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	209	21.60	70.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 34 7 56.7159492

**Longitude** 91 59 25.6615188

**Ellipsoid Height (M):** 37.864

**Geoid Height (M):** -25.780

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.748 KM (2.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.55 METERS WEST OF THE EDGE OF A CONCRETE DITCH, 1.58 METERS SOUTH OF THE EDGE OF A CONCRETE DRAIN RAMP, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350018	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> I 530	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	567,487.7240	
<b>Easting (M)</b>	401,072.8190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,861,832.6412	
<b>Easting (SFT)</b>	1,315,853.0737	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	23.4483985
<b>Scale Factor</b>	0.999921543		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	122	2.66	8.7
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	164	3.70	12.1
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	193	7.70	25.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 34 10 36.3207864

**Longitude** 91 59 18.1047192

**Ellipsoid Height (M):** 41.399

**Geoid Height (M):** -25.820

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF GO SOUTH ON I 530 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS SOUTHEAST OF THE OHIO STREET OVERPASS NORTH BOUND BRIDGE END, 2.68 METERS NORTHWEST OF THE OHIO STREET OVERPASS SOUTH BOUND BRIDGE END, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350018A	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> I 530	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	567,069.5869	
<b>Easting (M)</b>	400,659.4020	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,860,460.8030	
<b>Easting (SFT)</b>	1,314,496.7214	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	14.4117838
<b>Scale Factor</b>	0.999921383		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON I 530 FOR 1.30 KM (0.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.35 METERS NORTH OF THE NORTH EDGE OF THE SOUTH BOUND I 530 LANE, 7.34 METERS SOUTH OF THE SOUTH EDGE OF THE NORTH BOUND I 530 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350019	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 256	<b>Job Number:</b> 020048
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	600,104.5739	
<b>Easting (M)</b>	394,938.0620	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,968,843.0895	
<b>Easting (SFT)</b>	1,295,725.9584	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	51.0215120
<b>Scale Factor</b>	0.999947392		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	91	8.00	26.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 480016	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 28 14.8782720
<b>Longitude</b>	92 3 18.3622644
<b>Ellipsoid Height (M):</b>	42.102
<b>Geoid Height (M):</b>	-26.065

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.20 MILES TO THE STATION ON THE RIGHT, 8.20 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350019A	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 256	<b>Job Number:</b> 020048
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	599,570.2908	
<b>Easting (M)</b>	394,856.2360	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,967,090.1957	
<b>Easting (SFT)</b>	1,295,457.5009	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	52.8097620
<b>Scale Factor</b>	0.999946757		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	192	2.40	7.9
MK # 2	POWER POLE	267	14.80	48.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 480016	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 27 57.5370180
<b>Longitude</b>	92 3 21.5573328
<b>Ellipsoid Height (M):</b>	43.091
<b>Geoid Height (M):</b>	-26.059

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.55 MILES TO THE STATION ON THE LEFT, EAST 9.10 METERS OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350020	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 31	<b>Job Number:</b> 020047
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	593,609.8449	
<b>Easting (M)</b>	409,438.2440	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,947,534.9661	
<b>Easting (SFT)</b>	1,343,298.6389	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	26.8624180
<b>Scale Factor</b>	0.999940143		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 AND HIGHWAY 31, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.05 MILES TO THE STATION ON THE LEFT, 10.60 METERS WEST OF THE CENTER OF THE HIGHWAY, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LROC</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	480016	Ref Mon # 3	AHTD LROC	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD MON 1						
Ref Mon # 2	480016						
Ref Mon # 3	AHTD LROC						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350020A	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 31	<b>Job Number:</b> 020047
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 594,156.3599		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 409,604.4430		<b>Latitude</b> 34 25 1.7165676
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 53 43.8684936
<b>Northing (SFT)</b> 1,949,327.9908		<b>Ellipsoid Height (M):</b> 38.450
<b>Easting (SFT)</b> 1,343,843.9101		<b>Geoid Height (M):</b> -26.085
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 3 30.5173012	<b>Location Description</b>  TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 SOUTH AND HIGHWAY 31 SOUTH, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.40 MILES TO THE STATION ON THE LEFT, 6.0 METERS NORTH OF A FIELD TURN IN AND 0.50 EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999940712	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	234	26.70	87.6		350020
MK # 2						196 58 24
MK # 3						196 54 54

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 480016	
Ref Mon # 3 AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350021	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79B	<b>Job Number:</b> 020384
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	583,219.8469	
<b>Easting (M)</b>	409,940.0290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,913,447.1144	
<b>Easting (SFT)</b>	1,344,944.9118	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	37.6200077
<b>Scale Factor</b>	0.999930723		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HEADWALL	244	21.55	70.7
MK # 2	TELEPHONE RISER	40	26.45	86.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 LROC, AHTD HOPE 1	
Ref Mon # 2 480016	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 19 6.7579572
<b>Longitude</b>	91 53 31.1780796
<b>Ellipsoid Height (M):</b>	38.604
<b>Geoid Height (M):</b>	-25.983

Location Description
<p>TO REACH THE STATION: THE STATION IS IN THE MEDIAN AT THE INTERSECTIONS OF U.S. STATE HIGHWAY 79B AND HIGHWAY 15 NORTH WEST OF ALTHEMER, ACROSS THE ROAD (SOUTH) FROM THE TRAVLERS REST M. B. CHURCH, NORTH 19.40 METERS OF THE CENTER OF 79B AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350021A	<b>Date Monumented</b> 1/16/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79B	<b>Job Number:</b> 020384
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	583,183.7819	
<b>Easting (M)</b>	410,606.4220	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,913,328.7911	
<b>Easting (SFT)</b>	1,347,131.2362	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	52.2086481
<b>Scale Factor</b>	0.999930695		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER	231	1.40	4.6
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	350021
<b>Geodetic Azimuth</b>	273 09 45
<b>Grid Azimuth</b>	273 05 52

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> LROC, AHTD HOPE 1	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350022	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 001942
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,283.8990	
<b>Easting (M)</b>	389,721.1540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,848,040.5920	
<b>Easting (SFT)</b>	1,278,610.1527	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	44.5626416
<b>Scale Factor</b>	0.999920123		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE SIGN POST FOR BBQ HUT	58	22.20	72.8
MK # 2	CORRIGATED METAL PIPE	224	12.40	40.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AHTD HOPE 1	##### NOTE ##### CAP IS STAMPED 350021
Ref Mon # 2: 480016	
Ref Mon # 3: AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350022A	<b>Date Monumented</b> 1/22/2003	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 001942
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	562,895.5209	
<b>Easting (M)</b>	389,335.3550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,846,766.3882	
<b>Easting (SFT)</b>	1,277,344.4105	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	52.9816271
<b>Scale Factor</b>	0.999920013		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	58	16.70	54.8
MK # 2	COMBINATION POLE	209	24.75	81.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HOPE 1 <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> AHTD MON 1	##### NOTE ##### CAP IS STAMPED 350021A     

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    8    7.0787256
<b>Longitude</b>	92    6    56.2685436
<b>Ellipsoid Height (M):</b>	61.896
<b>Geoid Height (M):</b>	-25.771

Location Description
TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO NORTH ON U.S. HIGHWAY 79 FOR 6.91 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "350021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350023	<b>Date Monumented</b> 7/18/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79B	<b>Job Number:</b> 20070, 020495.020588,02062
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	573,583.7409
<b>Easting (M)</b>	398,212.7760
<b>Elevation (M)*</b>	67.749 0.0000
<b>Northing (SFT)</b>	1,881,832.6566
<b>Easting (SFT)</b>	1,306,469.7493
<b>Elevation (SFT)*</b>	222.273

  

<b>Convergence Angle</b>	0 0 39.0882616
<b>Scale Factor</b>	0.999924376
<b>Elevation Adjust. Factor</b>	0.9999893681
<b>Combined Adjust. Factor</b>	0.9999137449

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	13	54.1729344
<b>Longitude</b>	92	1	9.8390424
<b>Ellipsoid Height:</b>	41.995		
<b>Grid Northing (Meters)</b>	573,583.7409		
<b>Grid Easting (Meters)</b>	398,212.7760		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65B AND STATE HIGHWAY 79B, IN PINE BLUFF, GO NORTH ON HIGHWAY 79B 0.10 MILES TO THE STATION MARK ON THE RIGHT, WEST OF A CEMETARY FENCE, EAST 89.90 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 8.10 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 1 1/2 INCH CAP STAMPED "350023 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE WITH GUY	274	9.97	32.7	
MK # 2	WATER SPIGOT	35	4.97	16.3	
MK # 3	CHAINLINK FENCE CORNER	139	3.47	11.4	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARPB	3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ***** Elevation updated from 222.260' to 222.273' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.
Ref Mon # 2	ARMO	
Ref Mon # 3	ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350023A	<b>Date Monumented</b> 7/18/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79B	<b>Job Number:</b> 020070, 020495, 020588
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	574,218.4529	
<b>Easting (M)</b>	398,220.9760	
<b>Elevation (M)*</b>	67.045	0.0024
<b>Northing (SFT)</b>	1,883,915.0409	
<b>Easting (SFT)</b>	1,306,496.6521	
<b>Elevation (SFT)*</b>	219.963	

  

<b>Convergence Angle</b>	0	0	38.9115379
<b>Scale Factor</b>	0.999924724		
<b>Elevation Adjust. Factor</b>	0.9999894786		
<b>Combined Adjust. Factor</b>	0.9999142034		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	63	26.30	86.3
MK # 2	CHAINLINK FENCE CORNER	343	6.43	21.1
MK # 3	COMBINATION POLE WITH LIGHT	172	28.59	93.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> K 124, J 112 <b>Ref Mon # 3</b> ALMYPORT	3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07.    ***** Elevation updated from 219.975' to 219.963' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588. ***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    34    14    14.7734088

**Longitude**    92    1    9.5232900

**Ellipsoid Height (M):**    41.293

**Geoid Height (M):**    -25.869

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65B AND STATE HIGHWAY 79B, IN PINE BLUFF, GO NORTH ON HIGHWAY 79B 0.50 MILES TO THE STATION MARK ON THE LEFT, NORTH OF THE TOP BANK OF A DRAINAGE DITCH, WEST 78.40 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 50.70 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 1 1/2 INCH CAP STAMPED "350023A 2006" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350024	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 270	<b>Job Number:</b> 020445, 020626
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	579,824.8377	0.0020
<b>Easting (M)</b>	384,782.6896	0.0020
<b>Elevation (M)*</b>	105.691	
<b>Northing (SFT)</b>	1,902,308.6550	
<b>Easting (SFT)</b>	1,262,407.8741	
<b>Elevation (SFT)*</b>	346.754	

  

<b>Convergence Angle</b>	0	5	33.0369220
<b>Scale Factor</b>	0.999928219		
<b>Elevation Adjust. Factor</b>	0.9999834140		
<b>Combined Adjust. Factor</b>	0.9999116341		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	17	16.3415940
<b>Longitude</b>	92	9	55.0372824
<b>Ellipsoid Height:</b>	79.867		
<b>Grid Northing (Meters)</b>	579,824.8359		
<b>Grid Easting (Meters)</b>	384,782.6940		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	296	28.62	93.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM (ARCM, ARLR)	Old elev. 105.668m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445. *****UPDATED 11/2016***** ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2    ARLR (CSAL)	
Ref Mon # 3    ARPB (K 124)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350024A	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 270	<b>Job Number:</b> 020445, 020626
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	579,608.7485	0.0020	
<b>Easting (M)</b>	385,233.6976	0.0020	
<b>Elevation (M)*</b>	105.927		

  

<b>Northing (SFT)</b>	1,901,599.7024		
<b>Easting (SFT)</b>	1,263,887.5562		
<b>Elevation (SFT)*</b>	347.529		

  

<b>Convergence Angle</b>	0	5	23.1590378
<b>Scale Factor</b>	0.999928070		
<b>Elevation Adjust. Factor</b>	0.9999833769		
<b>Combined Adjust. Factor</b>	0.9999114481		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	17	9.3512220
<b>Longitude</b>	92	9	37.3884156
<b>Ellipsoid Height:</b>	80.095		
<b>Grid Northing (Meters)</b>	579,608.7379		
<b>Grid Easting (Meters)</b>	385,233.7030		

  

**Location Description**  
  
 TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, WEST OF WHITE HALL, GO EAST ON HIGHWAY 270 FROM THE COUNTY LINE 3.3 MILES TO THE STATION MARK ON THE LEFT, AND NORTH 54.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350024A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	97	4.67	15.3
<b>MK # 2</b>	SERVICE POLE WITH GUY	6	13.17	43.2
<b>MK # 3</b>				

  

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Area Reference Monuments (used for Processing)</b> </div> <table style="width: 100%;"> <tr> <td style="width: 30%;"><b>Ref Mon # 1</b></td> <td>ARCM (ARCM, ARLR)</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>ARLR (CSAL)</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>ARPB (K 124)</td> </tr> </table>	<b>Ref Mon # 1</b>	ARCM (ARCM, ARLR)	<b>Ref Mon # 2</b>	ARLR (CSAL)	<b>Ref Mon # 3</b>	ARPB (K 124)	<div style="border: 1px solid black; padding: 5px;"> <b>Comments</b>             Original Elevation 105.9051m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445.            *****UPDATED 11/2016*****            ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.         </div>
<b>Ref Mon # 1</b>	ARCM (ARCM, ARLR)						
<b>Ref Mon # 2</b>	ARLR (CSAL)						
<b>Ref Mon # 3</b>	ARPB (K 124)						

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350025	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> 020445, 020626
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	576,848.4422	0.0020	
<b>Easting (M)</b>	390,403.7869	0.0020	
<b>Elevation (M)*</b>	97.198		
<b>Northing (SFT)</b>	1,892,543.5975		
<b>Easting (SFT)</b>	1,280,849.7575		
<b>Elevation (SFT)*</b>	318.892		

  

<b>Convergence Angle</b>	0	3	29.9507655
<b>Scale Factor</b>	0.999926268		
<b>Elevation Adjust. Factor</b>	0.9999847466		
<b>Combined Adjust. Factor</b>	0.9999110158		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	15	39.9788856
<b>Longitude</b>	92	6	15.1191180
<b>Ellipsoid Height:</b>	71.394		
<b>Grid Northing (Meters)</b>	576,848.4119		
<b>Grid Easting (Meters)</b>	390,403.7910		

  

Location Description			
<p>THE STATION MARK IS LOCATED IN THE MEDIAN OF I 530, WEST OF WHITE HALL, SOUTH OF THE OVER PASS FOR STATE HIGHWAY 270 (EXIT 34), EAST 24.5 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 25.3 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, 3.5 FEET SOUTH OF THE EDGE OF CONCRETE, AND EAST 21.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM (ARCM, ARLR)</p> <p><b>Ref Mon # 2</b>    ARLR (CSAL)</p> <p><b>Ref Mon # 3</b>    ARPB (K 124)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350025A	<b>Date Monumented</b> 8/30/2006	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> 020445, 020626
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	576,321.1620	0.0020			
<b>Easting (M)</b>	390,476.5169	0.0020			
<b>Elevation (M)*</b>	88.895				
<b>Northing (SFT)</b>	1,890,813.6790				
<b>Easting (SFT)</b>	1,281,088.3725				
<b>Elevation (SFT)*</b>	291.651				

  

<b>Convergence Angle</b>	0	3	28.3478910
<b>Scale Factor</b>	0.999925944		
<b>Elevation Adjust. Factor</b>	0.9999860496		
<b>Combined Adjust. Factor</b>	0.9999119946		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	15	22.8681648
<b>Longitude</b>	92	6	12.2550624
<b>Ellipsoid Height:</b>	63.077		
<b>Grid Northing (Meters)</b>	576,321.1429		
<b>Grid Easting (Meters)</b>	390,476.5260		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT 34), WEST OF WHITE HALL, GO SOUTH ON I 530 0.30 MILES TO THE STATION MARK IN THE MEDIAN, EAST 30.7 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 28.7 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025A 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM (ARCM, ARLR)</p> <p><b>Ref Mon # 2</b>    ARLR (CSAL)</p> <p><b>Ref Mon # 3</b>    ARPB (K 124)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350026	<b>Date Monumented</b> 1/19/2010	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 54	<b>Job Number:</b> 020BR2
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	565,896.7000	
<b>Easting (M)</b>	384,193.1780	
<b>Elevation (M)*</b>	86.072	
<b>Northing (SFT)</b>	1,856,612.7566	
<b>Easting (SFT)</b>	1,260,473.7848	
<b>Elevation (SFT)*</b>	282.388	

  

<b>Convergence Angle</b>	0	5	45.4281131
<b>Scale Factor</b>	0.999920950		
<b>Elevation Adjust. Factor</b>	0.9999864927		
<b>Combined Adjust. Factor</b>	0.9999074437		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 54, SOUTHWEST OF PINE BLUFF, GO WEST ON 54 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 30.1 FEET, AND SOUTHEAST 1.88 FEET OF A</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER METER	65	21.85	71.7
<b>MK # 2</b>	30 INCH TWIN PINE	162	13.71	45.0
<b>MK # 3</b>	COMBINATION POLE	53	19.32	63.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    CSAL, ARLR</p> <p><b>Ref Mon # 2</b>    K 124</p> <p><b>Ref Mon # 3</b>    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="height: 100px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350026A	<b>Date Monumented</b> 1/19/2010	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 54	<b>Job Number:</b> 020BR2
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	566,184.0850				
<b>Easting (M)</b>	384,515.3700				
<b>Elevation (M)*</b>	88.606				
<b>Northing (SFT)</b>	1,857,555.6189				
<b>Easting (SFT)</b>	1,261,530.8431				
<b>Elevation (SFT)*</b>	290.702				

  

<b>Convergence Angle</b>	0	5	38.3975355
<b>Scale Factor</b>	0.999921052		
<b>Elevation Adjust. Factor</b>	0.9999860950		
<b>Combined Adjust. Factor</b>	0.9999071481		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 54, SOUTHWEST OF PINE BLUFF, GO WEST ON 54 FOR 6.3 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 24 FEET, AND SOUTHEAST 12 FEET OF A WIT			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	103	24.07	79.0
MK # 2	POWER POLE	200	32.58	106.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: CSAL, ARLR Ref Mon # 2: K 124 Ref Mon # 3: ARHP	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350027	<b>Date Monumented</b> 11/19/2010	<b>Monumented By</b> AHTD	<b>County</b> Jefferson	<b>Route</b> 79	<b>Job Number:</b> 020505,020615
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	568,180.2862	0.0030	
<b>Easting (M)</b>	393,013.9755	0.0040	
<b>Elevation (M)*</b>	72.347		
<b>Northing (SFT)</b>	1,864,104.8223		
<b>Easting (SFT)</b>	1,289,413.3513		
<b>Elevation (SFT)*</b>	237.358		

  

<b>Convergence Angle</b>	0	2	32.7033738
<b>Scale Factor</b>	0.999921818		
<b>Elevation Adjust. Factor</b>	0.9999886465		
<b>Combined Adjust. Factor</b>	0.9999104654		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	10	58.7173476
<b>Longitude</b>	92	4	32.8361772
<b>Ellipsoid Height:</b>	46.545		
<b>Grid Northing (Meters)</b>	568,180.2930		
<b>Grid Easting (Meters)</b>	393,013.9530		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North end of a 24 inch cmp	223	21.95	72.0
<b>MK # 2</b>	Fire hydrant	183	46.02	151.0
<b>MK # 3</b>	Power pole with guy and transformer	55	41.45	136.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARMO	Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505. *****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34    10    58.7171280
<b>Longitude</b>	92    4    32.8352952
<b>Ellipsoid Height (M):</b>	46.402    0.0060
<b>Geoid Height (M):</b>	-25.945

Location Description
To reach the station from the junction of I-530 and highway 79 south, southwest of Pine Bluff go south on hwy-79 for 1.10 miles to the station on the right. 59.0 feet northwest of the center of hwy-79, 90 feet north of Nevins road, 13 feet northwest of a drainage ditch and 1.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "350027 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

<b>AZ Mark Station</b>	350027A
<b>Geodetic Azimuth</b>	206 29 22
<b>Grid Azimuth</b>	206 31 55

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350027A	<b>Date Monumented</b> 11/19/2010	<b>Monumented By</b> AHTD	<b>County</b> Jefferson	<b>Route</b> 79	<b>Job Number:</b> 020505,020615
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	567,762.8981	0.0030	
<b>Easting (M)</b>	392,805.5889	0.0040	
<b>Elevation (M)*</b>	70.235		
<b>Northing (SFT)</b>	1,862,735.4415		
<b>Easting (SFT)</b>	1,288,729.6696		
<b>Elevation (SFT)*</b>	230.430		

  

<b>Convergence Angle</b>	0	2	37.2514158
<b>Scale Factor</b>	0.999921650		
<b>Elevation Adjust. Factor</b>	0.9999889779		
<b>Combined Adjust. Factor</b>	0.9999106288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	10	45.1653240
<b>Longitude</b>	92	4	40.9623384
<b>Ellipsoid Height:</b>	44.437		
<b>Grid Northing (Meters)</b>	567,762.9079		
<b>Grid Easting (Meters)</b>	392,805.5620		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Drop inlet across the highway	343	23.47	77.0
MK # 2	Telephone box in yard	97	28.65	94.0
MK # 3	Combination pole in yard	61	19.81	65.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>  <b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARMO	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505.*****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****         </td> </tr> </table>	Comments	Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505.*****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****
Comments			
Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505.*****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****			

  

Location Description
To reach the station from the junction of I-530 and highway 79 south, southwest of Pine Bluff go south on hwy-79 for 1.40 miles to the station on the left just past a bridge over Nevins creek. 74 feet northwest of the right of way fence, 34 feet southeast of the center of hwy-79, 24 feet southwest of a paved driveway and 2.0 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "350027A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	34    10    45.1650072
<b>Longitude</b>	92    4    40.9612872
<b>Ellipsoid Height (M):</b>	44.299    0.0100
<b>Geoid Height (M):</b>	-25.941

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350028	<b>Date Monumented</b> 12/2/2014	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 63	<b>Job Number:</b> RX0030
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,188.3729	
<b>Easting (M)</b>	397,258.8102	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,824,761.3534	
<b>Easting (SFT)</b>	1,303,339.9465	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	59.8420073
<b>Scale Factor</b>	0.999918718		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	142	29.60	97.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	34.0430 92.0147
Ref Mon # 2: ARCM	
Ref Mon # 3: MSB6	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID99
<b>Latitude</b>	34 4 29.5661280
<b>Longitude</b>	92 1 46.9197840
<b>Ellipsoid Height (M):</b>	58.193
<b>Geoid Height (M):</b>	-25.801

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 2.15 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 43 FT. EAST OF THE CENTERLINE OF HWY 63, AND 19 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350028 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350029	<b>Date Monumented</b> 12/8/2014	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> BB0201
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	582,025.9838	0.0040	
<b>Easting (M)</b>	387,069.1371	0.0036	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,909,530.2485		
<b>Easting (SFT)</b>	1,269,909.3273		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	4	43.0632805
<b>Scale Factor</b>	0.999929809		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW COR OF BRIDGE N BOUND I-530	356	11.20	36.7
<b>MK # 2</b>	SE COR OF BRIDGE S BOUND I-530	190	9.90	32.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> MSB6	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID99
<b>Latitude</b>	34 18 27.8924760
<b>Longitude</b>	92 8 25.7494920
<b>Ellipsoid Height (M):</b>	64.847 0.0275
<b>Geoid Height (M):</b>	-25.958

**Location Description**

TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. THE MARK IS IN THE CENTER OF THE MEDIAN ON THE SOUTH SIDE OF THE OVERPASS. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 7 FT. SOUTH OF A CONCRETE RETAINING WALL, 38.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530, AND 45.2 FT. EAST OF THE CENTER OF SOUTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029 2014" SET ON TOP OF A 5/8 IN BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350029A	<b>Date Monumented</b> 12/8/2014	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> BB0201
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	581,586.6204	0.0043			
<b>Easting (M)</b>	387,492.8709	0.0039			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,908,088.7704				
<b>Easting (SFT)</b>	1,271,299.5273				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	4	33.7747748
<b>Scale Factor</b>	0.999929483		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL CABLE BARRIER POST	282	8.40	27.6
<b>MK # 2</b>	METAL CABLE BARRIER POST	250	5.10	16.7
<b>MK # 3</b>	METAL CABLE BARRIER POST	196	4.90	16.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> MSB6	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID99
<b>Latitude</b>	34 18 13.6511640
<b>Longitude</b>	92 8 9.1537080
<b>Ellipsoid Height (M):</b>	56.087 0.0279
<b>Geoid Height (M):</b>	-25.956

Location Description
<p>TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. GO SOUTH ON I-530 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 11.5 FT. EAST OF A WITNESS POST, 37.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 47 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350030	<b>Date Monumented</b> 12/8/2014	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> BB0201,020661
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	590,850.6956	0.0055	
<b>Easting (M)</b>	383,261.1343	0.0056	
<b>Elevation (M)*</b>	101.496	0.0066	
<b>Northing (SFT)</b>	1,938,482.6571		
<b>Easting (SFT)</b>	1,257,415.9048		
<b>Elevation (SFT)*</b>	332.991		

  

<b>Convergence Angle</b>	0	6	6.7657730
<b>Scale Factor</b>	0.999937371		
<b>Elevation Adjust. Factor</b>	0.9999840722		
<b>Combined Adjust. Factor</b>	0.9999214442		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD83 (1997)		
<b>Latitude</b>	34	23	14.1073440
<b>Longitude</b>	92	10	55.3002240
<b>Ellipsoid Height:</b>	75.493		
<b>Grid Northing (Meters)</b>	590,850.6940		
<b>Grid Easting (Meters)</b>	383,261.1498		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW CORNER OF BRIDGE N BOUND I-530	183	11.80	38.7
<b>MK # 2</b>	NE CORNER OF BRIDGE S BOUND I-530	225	7.80	25.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> MSB6	<b>Comments</b> ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.
---	--

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID18

**Latitude**    34    23    14.1073944

**Longitude**    92    10    55.3008324

**Ellipsoid Height (M):**    75.449    0.0111

**Geoid Height (M):**    -26.046

  

**Location Description**

TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO TO THE NORTH SIDE OF THE OVERPASS TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 13.5 FT. NORTH OF A CONCRETE RETAINING WALL, 43.5 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 35.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "350030 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350030A	<b>Date Monumented</b> 12/8/2014	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 530	<b>Job Number:</b> BB0201,020661
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	591,515.3743    0.0058
<b>Easting (M)</b>	383,117.7774    0.0059
<b>Elevation (M)*</b>	93.500    0.0074
<b>Northing (SFT)</b>	1,940,663.3572
<b>Easting (SFT)</b>	1,256,945.5747
<b>Elevation (SFT)*</b>	306.758

  

<b>Convergence Angle</b>	0    6    9.9329831
<b>Scale Factor</b>	0.999938019
<b>Elevation Adjust. Factor</b>	0.9999853270
<b>Combined Adjust. Factor</b>	0.9999233469

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD83 (1997)		
<b>Latitude</b>	34    23    35.6713800		
<b>Longitude</b>	92    11    0.9592800		
<b>Ellipsoid Height:</b>	67.503		
<b>Grid Northing (Meters)</b>	591,515.3782		
<b>Grid Easting (Meters)</b>	383,117.7879		

  

Location Description			
TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO NORTH ON I-530 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 6 FT. EAST OF A WITNESS POST, 29.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 54.5 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350030A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	METAL CABLE BARRIER POST	197	5.40	17.7		<b>AZ Mark Station</b> 350030
MK # 2	METAL CABLE BARRIER POST	262	2.50	8.2		<b>Geodetic Azimuth</b>
MK # 3	METAL CABLE BARRIER POST	327	5.10	16.7		<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> MSB6	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350031	<b>Date Monumented</b> 1/26/2015	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 13th AV	<b>Job Number:</b> C35002.020588,020628
--------------------------	-------------------------------------	------------------------------	----------------------------	-------------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	571,876.5539 0.0030
<b>Easting (M)</b>	397,512.4009 0.0030
<b>Elevation (M)*</b>	69.638 0.0020
<b>Northing (SFT)</b>	1,876,231.6606
<b>Easting (SFT)</b>	1,304,171.9353
<b>Elevation (SFT)*</b>	228.472

  

<b>Convergence Angle</b>	0 0 54.3962729
<b>Scale Factor</b>	0.999923490
<b>Elevation Adjust. Factor</b>	0.9999890716
<b>Combined Adjust. Factor</b>	0.9999125624

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	12	58.7586240
<b>Longitude</b>	92	1	37.1898840
<b>Ellipsoid Height:</b>	42.929		
<b>Grid Northing (Meters)</b>	571,876.5539		
<b>Grid Easting (Meters)</b>	397,512.4009		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 0.9 MILES TO THE MARK ON THE RIGHT, SOUTH 23 FEET OF THE BACK OF THE CURB OF 13th STREET, AND EAST 68.6 FEET OF THE EASTERN MOST RAIL OF THE RAIL ROAD TRACKS. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VALVE	319	19.20	63.0
MK # 2	NW CORNER 1-S-F HOUSE	158	35.70	117.1
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    ARCM Ref Mon # 3    ARPB	<b>Comments</b>  ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ***** Elevation updated from 228.971" to 228.4720" in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350031A	<b>Date Monumented</b> 1/26/2015	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 13th AV	<b>Job Number:</b> C35002,020588
---------------------------	-------------------------------------	------------------------------	----------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	571,894.2465 0.0030
<b>Easting (M)</b>	398,131.5733 0.0030
<b>Elevation (M)*</b>	68.205 0.0018
<b>Northing (SFT)</b>	1,876,289.7071
<b>Easting (SFT)</b>	1,306,203.3367
<b>Elevation (SFT)*</b>	223.770

  

<b>Convergence Angle</b>	0 0 40.8569209
<b>Scale Factor</b>	0.999923499
<b>Elevation Adjust. Factor</b>	0.9999892965
<b>Combined Adjust. Factor</b>	0.9999127963

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	12	59.3375040
<b>Longitude</b>	92	1	12.9991080
<b>Ellipsoid Height:</b>	41.503		
<b>Grid Northing (Meters)</b>	571,894.2465		
<b>Grid Easting (Meters)</b>	398,131.5733		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 1.3 MILES TO THE MARK ON THE LEFT, NORTH 31.5 FEET OF THE CENTER LINE OF 13th AVE, EAST 78.5 FEET OF THE CENTERLINE OF HICKORY STREET, IN THE CORNER OF THE SIDE WALK AND THE STEPS LEADING FROM A HOUSE WITH THE ADDRESS 1709. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF A 1-S-F HOUSE	315	18.40	60.4
MK # 2	SW CORNER OF A 1-S-F HOUSE	28	28.00	91.9
MK # 3				

  

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	ARPB

  

Comments
<p>ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ***** Elevation updated from 224.254" to 223.770' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.*****Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350032	<b>Date Monumented</b> 6/7/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> US-63	<b>Job Number:</b> 020584
--------------------------	------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	557,943.8022	0.0020	
<b>Easting (M)</b>	400,474.0999	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,830,520.6244		
<b>Easting (SFT)</b>	1,313,888.7761		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	0	10.3518419
<b>Scale Factor</b>	0.999918950		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARLR	CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT
Ref Mon # 2    ARCM	
Ref Mon # 3    ARP, ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    5    26.5551828
<b>Longitude</b>	91    59    41.5043520
<b>Ellipsoid Height (M):</b>	50.065    0.0050
<b>Geoid Height (M):</b>	-25.898    0.0050

Location Description
<p>FROM JCT OF US-63 &amp; SR-54W IN PINEBERGEN, S OF PINE BLUFF, GO S ON US-63 0.75 MI TO STA ON L. 14' E OF EDGE OF PAVEMENT. STA IS A 2 1/2" ALUM CAP STAMPED "350032 2016" SET BELOW SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350032A	<b>Date Monumented</b> 6/7/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> US-63	<b>Job Number:</b> 020584
---------------------------	------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	558,423.1719	0.0020			
<b>Easting (M)</b>	400,559.1556	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,832,093.3565				
<b>Easting (SFT)</b>	1,314,167.8297				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	0	12.2096297
<b>Scale Factor</b>	0.999919027		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PHONE BOX	154	52.00	170.6
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARP, ARWY	<b>Comments</b> CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT
--	--

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 5 42.1140624
<b>Longitude</b>	91 59 38.1850404
<b>Ellipsoid Height (M):</b>	46.848 0.0050
<b>Geoid Height (M):</b>	-25.901 0.0050

Location Description
FROM JCT OF US-63 & SR-54W IN PINEBERGEN, S OF PINE BLUFF, GO S ON US-63 0.4 MI TO STA TO STA ON L. 5' E OF EDGE OF PAVEMENT. STA IS A 2 1/2" ALUM CAP STAMPED "350032A 2016" SET BELOW SURFACE.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350033	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 270	<b>Job Number:</b> 020626
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	578,367.5414	0.0020			
<b>Easting (M)</b>	387,504.7721	0.0020			
<b>Elevation (M)*</b>	99.700				

  

<b>Northing (SFT)</b>	1,897,527.5087	
<b>Easting (SFT)</b>	1,271,338.5731	
<b>Elevation (SFT)*</b>	327.098	

  

<b>Convergence Angle</b>	0	4	33.4208580
<b>Scale Factor</b>	0.999927237		
<b>Elevation Adjust. Factor</b>	0.9999843541		
<b>Combined Adjust. Factor</b>	0.9999115922		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**  
  
 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 52.8 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 31.5 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	137	31.00	101.7
MK # 2	COMBINATION POLE W/TRANSFORMER	290	54.20	177.8
MK # 3				

  

<b>AZ Mark Station</b>	350033A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>  ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350033A	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 270	<b>Job Number:</b> 020626
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	578,109.9886	0.0020			
<b>Easting (M)</b>	388,005.8980	0.0020			
<b>Elevation (M)*</b>	98.773				
<b>Northing (SFT)</b>	1,896,682.5209				
<b>Easting (SFT)</b>	1,272,982.6837				
<b>Elevation (SFT)*</b>	324.057				

  

<b>Convergence Angle</b>	0	4	22.4480502
<b>Scale Factor</b>	0.999927069		
<b>Elevation Adjust. Factor</b>	0.9999844996		
<b>Combined Adjust. Factor</b>	0.9999115697		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.6 MILES TO THE MARK ON THE LEFT, SOUTH 29 FEET OF THE CENTELINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/2 GUYS	282	113.70	373.0
<b>MK # 2</b>	COMBINATION POLE W/TRANSFORMER & LIGHT	133	121.00	397.0
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    <input type="text" value="ARCM"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="ARLR"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="ARPB"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350034	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 270	<b>Job Number:</b> 020626
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	575,509.2523	0.0020			
<b>Easting (M)</b>	393,114.1300	0.0020			
<b>Elevation (M)*</b>	79.724				
<b>Northing (SFT)</b>	1,888,149.9386				
<b>Easting (SFT)</b>	1,289,741.9415				
<b>Elevation (SFT)*</b>	261.560				

  

<b>Convergence Angle</b>	0	2	30.6311477
<b>Scale Factor</b>	0.999925460		
<b>Elevation Adjust. Factor</b>	0.9999874889		
<b>Combined Adjust. Factor</b>	0.9999129498		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EASTERN MOST GATE POST	138	48.30	158.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARPB	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    14    56.5917828
<b>Longitude</b>	92    4    29.1328464
<b>Ellipsoid Height (M):</b>	53.741    0.0050
<b>Geoid Height (M):</b>	-26.004    0.0022

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO WEST ON HIGHWAY 270 0.3 MILES TO THE MARK ON THE LEFT, SOUTH 27 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 26.2 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350034A	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> HEATHA	<b>Job Number:</b> 020626
---------------------------	-------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	575,492.5166 0.0020
<b>Easting (M)</b>	393,625.0968 0.0020
<b>Elevation (M)*</b>	79.138
<b>Northing (SFT)</b>	1,888,095.0315
<b>Easting (SFT)</b>	1,291,418.3384
<b>Elevation (SFT)*</b>	259.637

  

<b>Convergence Angle</b>	0 2 19.4533010
<b>Scale Factor</b>	0.999925451
<b>Elevation Adjust. Factor</b>	0.9999875809
<b>Combined Adjust. Factor</b>	0.9999130328

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 14 56.0602680
<b>Longitude</b>	92 4 9.1613748
<b>Ellipsoid Height (M):</b>	53.155 0.0050
<b>Geoid Height (M):</b>	-26.006 0.0017

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO EAST ON CHEATHAM STREET 100 FEET TO THE MARK ON THE LEFT, SOUTH 15 FEET OF THE CENTELINE OF CHEATHAM STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CINDER BLOCK B	49	25.00	82.0
MK # 2	SOUTHWEST CORNER OF CINDER BLOCK B	318	30.30	99.4
MK # 3	SS MANHOLE	173	17.00	55.8

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARCM Ref Mon # 2    ARLR Ref Mon # 3    ARPB	<b>Comments</b>  ELEVATION BASED ON DIGITAL LEVELS BY S5512 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350035	<b>Date Monumented</b> 8/1/2017	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> Sorrells Rd	<b>Job Number:</b> 020615
--------------------------	------------------------------------	------------------------------	----------------------------	-----------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	565,299.8837	0.0030	
<b>Easting (M)</b>	392,730.1070	0.0040	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	1,854,654.7018		
<b>Easting (SFT)</b>	1,288,482.0260		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	2	38.8597949
<b>Scale Factor</b>	0.999920749		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Intersection of Sorrells and Calloway Hill	6	161.40	529.5
<b>MK # 2</b>	Edge of Pavement	92	5.22	17.1
<b>MK # 3</b>	Intersection of Sorrells and County Lane	246	161.20	528.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARMO <b>Ref Mon # 3</b> ARLR	Three wire elevations and static GPS by Garver in August 2017 for job 020615. Elevations based on AHTD GPS Mon. 350027.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34    9    25.2216000
<b>Longitude</b>	92    4    43.8349800
<b>Ellipsoid Height (M):</b>	56.589    0.0100
<b>Geoid Height (M):</b>	-25.921

Location Description
To reach from the junction of Hwy 79 and Sorrells Rd in Pine Bluff, go East 1.1 miles, then North 0.5 miles to the station on the right. The station is 1' West of a witness post, 530' North of of Calloway Hill and 32' East of CL

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350036	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 020630
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	591,797.8920	0.0020			
<b>Easting (M)</b>	421,142.2708	0.0020			
<b>Elevation (M)*</b>	57.409				
<b>Northing (SFT)</b>	1,941,590.2507				
<b>Easting (SFT)</b>	1,381,697.6001				
<b>Elevation (SFT)*</b>	188.348				

  

<b>Convergence Angle</b>	0	7	43.2952342
<b>Scale Factor</b>	0.999938289		
<b>Elevation Adjust. Factor</b>	0.9999909908		
<b>Combined Adjust. Factor</b>	0.9999292804		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Witness Post		1.98	6.5
MK # 2	conc. B.R.		9.88	32.4
MK # 3	Power Pole		25.91	85.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY	<b>Comments</b> Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.
--	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	34 23 44.5611012
<b>Longitude</b>	91 46 12.2298672
<b>Ellipsoid Height (M):</b>	31.118 0.0080
<b>Geoid Height (M):</b>	-26.290

Location Description
From the intersection of Hwy 79 and Hartley Dump Rd., a gravel rd., go West 0.7 miile to the station on the left. 6.5' N of witness post, 32.4' S of center of concrete B.R., 85' E of a PP

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350036A	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 020630
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	591,797.4435	0.0020			
<b>Easting (M)</b>	420,567.2990	0.0020			
<b>Elevation (M)*</b>	58.753	0.0016			
<b>Northing (SFT)</b>	1,941,588.7792				
<b>Easting (SFT)</b>	1,379,811.2135				
<b>Elevation (SFT)*</b>	192.760				

  

<b>Convergence Angle</b>	0	7	30.6957703
<b>Scale Factor</b>	0.999938290		
<b>Elevation Adjust. Factor</b>	0.9999907798		
<b>Combined Adjust. Factor</b>	0.9999290703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>From the intersection of Hwy. 79 and Hartley Dump Rd., a gravel Rd., go west 1.1 miles to the station on the left in the center of a levee headed south buried 0.7' below surface. 69.2' S of witness post, 53' S of center of gravel Rd.</p>			

  

Location Reference Marks							
Description		Azimuth	Distance		AZ Mark Station	Geodetic Azimuth	Grid Azimuth
			Meters	Feet			
MK # 1	Witness Post		21.09	69.2	350036		
MK # 2	center of gravel rd.		16.15	53.0			
MK # 3							

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY	Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360001	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 150,194.1150		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 247,457.1150		<b>Latitude</b> 35 40 31.3607712
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 41 6.5530572
<b>Northing (SFT)</b> 492,761.8590		<b>Ellipsoid Height (M):</b> 233.824
<b>Easting (SFT)</b> 811,865.5515		<b>Geoid Height (M):</b> -28.992
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 58 50.1219342	<b>Location Description</b> FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE, GO RIGHT INTO FIELD AND SOUTHWEST THROUGH SECOND GATE. THE STATION IS 311.59 FEET ALONG THE FENCE AND 3.60 FEET NORTHEAST OF A WITNESS POST.
<b>Scale Factor</b> 0.999937196	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GATE POST AT LATCH END OF GATE	100	94.97	311.6
<b>MK # 2</b>	NBC IN TOP OF POST AT FENCE JCT	128	86.70	284.5
<b>MK # 3</b>	NBC IN TOP FENCE POST AT CORNER OF GARDEN	26	29.83	97.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> OZARPORT	OLD PN: 91360001
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360002	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 150,170.1040		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 247,622.2570		<b>Latitude</b> 35 40 30.6734268
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 40 59.9704032
<b>Northing (SFT)</b> 492,683.0829		<b>Ellipsoid Height (M):</b> 243.968
<b>Easting (SFT)</b> 812,407.3548		<b>Geoid Height (M):</b> -28.992
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 58 46.2914936	<b>Location Description</b> FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE ON THE RIGHT. THE STATION IS 260 FEET FROM THE ENTRANCE TO THE FIELD AND 2.3 FEET NORTHWEST OF THE SECOND COMBINATION POLE WEST OF THE BARN.
<b>Scale Factor</b> 0.999937190	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 4" LOCUST	60	36.86	120.9
<b>MK # 2</b>	NBC IN COMBINATION POLE	115	56.89	186.6
<b>MK # 3</b>	NW CORNER OF OLD CHICKEN HOUSE	135	44.39	145.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> OLD PN: 91360002
<b>Ref Mon # 1</b> OZARPORT	
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360003	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 149,687.0380		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 250,270.4050		<b>Latitude</b> 35 40 16.4571852
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 39 14.3524692
<b>Northing (SFT)</b> 491,098.2238		<b>Ellipsoid Height (M):</b> 252.285
<b>Easting (SFT)</b> 821,095.4871		<b>Geoid Height (M):</b> -29.010
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 57 44.8325099	<b>Location Description</b>  FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW ROAD TO A FIELD ENTRANCE ON THE RIGHT, GO ACROSS FIELD TO THE THIRD COMBINATION POLE AND THE STATION. THE STATION IS 4.80 FEET FROM A WITNESS POST AND 166.98 FEET SOUTH OF THE COUNTY ROAD.
<b>Scale Factor</b> 0.999937084	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	112	116.70	382.9
<b>MK # 2</b>	NBC IN 24" WALNUT	112	45.11	148.0
<b>MK # 3</b>	NORTHEAST CORNER OF SHED	267	17.85	58.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> OLD PN: 91360003
<b>Ref Mon # 1</b> OZARPORT	
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360004	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 149,588.7409		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 250,471.6020		<b>Latitude</b> 35 40 13.3776552
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 39 6.2873280
<b>Northing (SFT)</b> 490,775.7274		<b>Ellipsoid Height (M):</b> 247.671
<b>Easting (SFT)</b> 821,755.5809		<b>Geoid Height (M):</b> -29.013
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 57 40.1394112	<b>Location Description</b> FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW DRIVE TO A FIELD ENTRANCE ON RIGHT, GO THROUGH FIELD ENTRANCE TO FIRST COMBINATION POLE AND THE STATION, 7.00 FEET FROM WITNESS POST.
<b>Scale Factor</b> 0.999937061	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	91360003 AZ. MK.
			Meters	Feet		
MK # 1	NBC IN 10" PERSIMMON	104	59.50	195.2	<b>Geodetic Azimuth</b>	295 04 38
MK # 2	NBC IN COMBINATION POLE	19	46.23	151.7	<b>Grid Azimuth</b>	296 02 18
MK # 3	NBC IN POWER POLE	342	65.81	215.9		

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> OZARPORT <b>Ref Mon # 2</b> CLARPORT <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91360004
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360005	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	151,263.1120	
<b>Easting (M)</b>	255,743.0890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	496,269.0600	
<b>Easting (SFT)</b>	839,050.4512	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	55	38.8041685
<b>Scale Factor</b>	0.999937514		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT OF HWY. 103 AND HWY. 215 NORTH OF CLARKSVILLE, GO RIGHT ON HWY. 215, 0.10 MILES TO GLORYLAND CHURCH. THE STATION IS SOUTHWEST OF THE CHURCH, ACROSS A FENCE, 12.85 FEET SOUTHWEST OF A DRILLED WELL, 188.79 FEET SOUTH OF THE CENTERLINE OF HWY. 215 AND 1.00 FEET NORTH OF A WITNESS POST.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE W/LIGHT		14	42.37	139.0
MK # 2	SOUTHWEST CORNER OF CHURCH		32	26.75	87.8
MK # 3	NBC IN POWER POLE		72	29.01	95.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> OZARPORT <b>Ref Mon # 2</b> CLARPORT <b>Ref Mon # 3</b> NONE	OLD PN: 91360005

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360006	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 151,180.8560		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 256,081.3690		<b>Latitude</b> 35 41 8.0283156
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 35 24.2659248
<b>Northing (SFT)</b> 495,999.1917		<b>Ellipsoid Height (M):</b> 268.739
<b>Easting (SFT)</b> 840,160.2915		<b>Geoid Height (M):</b> -28.987
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 55 30.9453503	<b>Location Description</b> FROM THE JCT. OF HWY. 103 AND HWY. 215 NORTH OF CLARKSVILLE, GO RIGHT ON HWY. 215 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 40.15 FEET SOUTH OF THE CENTERLINE OF HWY. 215 NEAR THE R/W FENCE AND 2.50 FEET FROM A WITNESS POST.
<b>Scale Factor</b> 0.999937493	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	241	47.59	156.1
<b>MK # 2</b>	NBC IN 28" WALNUT	104	39.48	129.5
<b>MK # 3</b>	NORTHWEST CORNER OF BARN	128	20.92	68.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> OZARPORT	OLD PN: 91360006
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360007	<b>Date Monumented</b> 5/6/1991	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 1648
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 150,445.7100		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 246,218.6340		<b>Latitude</b> 35 40 38.8328304
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 41 55.9697064
<b>Northing (SFT)</b> 493,587.3002		<b>Ellipsoid Height (M):</b> 239.507
<b>Easting (SFT)</b> 807,802.3017		<b>Geoid Height (M):</b> -28.984
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 59 18.8774393	<b>Location Description</b>  FROM THE JCT OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 8.15 MILES TO A BARN AND A FIELD ENTRANCE ON THE RIGHT, GO THROUGH GATE AND TURN RIGHT, GO TO FIRST COMBINATION POLE. THE STATION IS 5.50 FEET NORTHEAST OF THE POLE AND WITNESS POST AND 75.27 FEET FROM THE CENTERLINE OF A COUNTY ROAD.
<b>Scale Factor</b> 0.999937254	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE CORNER OF WATER TROUGH	307	65.71	215.6
<b>MK # 2</b>	NBC IN COMBINATION POLE	67	2.17	7.1
<b>MK # 3</b>	NORTHWEST CORNER OF BARN	127	41.47	136.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> OZARPORT <b>Ref Mon # 2</b> CLARPORT <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN: 91360007
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360008	<b>Date Monumented</b> 11/13/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 164	<b>Job Number:</b> 080200
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	136,881.7980	
<b>Easting (M)</b>	253,751.9894	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	449,086.3656	
<b>Easting (SFT)</b>	832,517.9852	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	56	19.4267065
<b>Scale Factor</b>	0.999936053		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.75 METERS WEST OF THE CENTER OF A ROAD TO A PASTURE AND HOGAN CEMETERY, 10.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 164 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	87	18.20	59.7
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="CLARPORT"/></p> <p>Ref Mon # 2 <input type="text" value="OZARPORT"/></p> <p>Ref Mon # 3 <input type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360008A	<b>Date Monumented</b> 11/13/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 164	<b>Job Number:</b> 080200
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 136,906.6563		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 253,171.4100		<b>Latitude</b> 35 33 23.3740764
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 37 10.6488480
<b>Northing (SFT)</b> 449,167.9215		<b>Ellipsoid Height (M):</b> 166.980
<b>Easting (SFT)</b> 830,613.2010		<b>Geoid Height (M):</b> -28.748
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 56 32.8494806	<b>Scale Factor</b> 0.999936052
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.88 KM (3.03 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 164 AND 1.25 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.</p>				

  

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
<b>MK # 1</b> EAST IN LINE WOODEN POST	136	1.80	5.9	
<b>MK # 2</b> WEST IN LINE WOODEN POST	211	1.70	5.6	
<b>MK # 3</b> NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> CLARPORT</p> <p><b>Ref Mon # 2</b> OZARPORT</p> <p><b>Ref Mon # 3</b></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360009	<b>Date Monumented</b> 3/18/2002	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 103	<b>Job Number:</b> 080224,080314,080340
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	126,433.3360	
<b>Easting (M)</b>	267,575.7820	
<b>Elevation (M)*</b>	135.218	
<b>Northing (SFT)</b>	414,806.7032	
<b>Easting (SFT)</b>	877,871.5448	
<b>Elevation (SFT)*</b>	443.628	

  

<b>Convergence Angle</b>	0	50	56.4651965
<b>Scale Factor</b>	0.999938121		
<b>Elevation Adjust. Factor</b>	0.9999787803		
<b>Combined Adjust. Factor</b>	0.9999169026		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	40	13.65	44.8
<b>MK # 2</b>	MAN HOLE COVER	348	11.30	37.1
<b>MK # 3</b>	CENTER LINE OF CONCRETE CULVERT	5	11.25	36.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="OZARPORT"/>	Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
<b>Ref Mon # 2</b> <input type="text" value="CLARPORT"/>	
<b>Ref Mon # 3</b> <input type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360010	<b>Date Monumented</b> 10/24/2007	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> 080320
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	124,098.9841	
<b>Easting (M)</b>	273,738.4220	
<b>Elevation (M)*</b>	136.149	
<b>Northing (SFT)</b>	407,148.0837	
<b>Easting (SFT)</b>	898,090.1395	
<b>Elevation (SFT)*</b>	446.682	

  

<b>Convergence Angle</b>	0	48	33.4845471
<b>Scale Factor</b>	0.999938920		
<b>Elevation Adjust. Factor</b>	0.9999786342		
<b>Combined Adjust. Factor</b>	0.9999175555		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 155 FEET TO THE STATION MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE HIGHWAY 54.7 FEET AND SOUTHWEST 1.50 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360010 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
<b>MK # 1</b>	COMBINATION POLE	134	2.59	8.5		P 294
<b>MK # 2</b>	GUY ANCHOR	315	17.07	56.0		131 11 36
<b>MK # 3</b>	COMBINTION POLE	131	17.68	58.0		132 00 09

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="RUSSPORT"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="OKHV"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="ARHR"/>	<p>ELEVATIONS DETERMINED BY 3 WIRE LEVEL FROM P 294 10/24/07 BY S5102.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360011	<b>Date Monumented</b> 12/5/2008	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080314,080340
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	126,471.8460	
<b>Easting (M)</b>	268,501.3380	
<b>Elevation (M)*</b>	127.800	
<b>Northing (SFT)</b>	414,933.0481	
<b>Easting (SFT)</b>	880,908.1398	
<b>Elevation (SFT)*</b>	419.291	

  

<b>Convergence Angle</b>	0	50	35.1187377
<b>Scale Factor</b>	0.999938104		
<b>Elevation Adjust. Factor</b>	0.9999799444		
<b>Combined Adjust. Factor</b>	0.9999180496		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123 S (EUREKA RD.) AND STATE HIGHWAY 64, EAST OF CLARKSVILLE, GO SOUTH ON HIGHWAY 123 S (EUREKA RD.) FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH EAST OF TRINITY CHAPEL PENECOSTAL CHURCH, WEST 26.0 FEET OF THE CENTER LINE OF A DITCH, SOUTH OF THE CENTER LINE OF THE HIGHWAY AND NORTH 22.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "360011 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER TRIPLE BOC CULVERT	120	9.60	31.5
<b>MK # 2</b>	SE CORNER BRICK CHURCH	321	29.87	98.0
<b>MK # 3</b>	FIBER OPTIC CABLE MKR	249	10.06	33.0

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
<b>Ref Mon # 1</b>	ARHR, OKHV, SAL5	
<b>Ref Mon # 2</b>	Q 294	
<b>Ref Mon # 3</b>	360009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360011A	<b>Date Monumented</b> 12/5/2008	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080314,080340
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	126,420.2260	
<b>Easting (M)</b>	269,008.5720	
<b>Elevation (M)*</b>	131.168	
<b>Northing (SFT)</b>	414,763.6915	
<b>Easting (SFT)</b>	882,572.2900	
<b>Elevation (SFT)*</b>	430.340	

  

<b>Convergence Angle</b>	0	50	23.3954944
<b>Scale Factor</b>	0.999938119		
<b>Elevation Adjust. Factor</b>	0.9999794159		
<b>Combined Adjust. Factor</b>	0.9999175362		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123 S (EUREKA RD.) AND STATE HIGHWAY 64, EAST OF CLARKSVILLE, GO SOUTH ON HIGHWAY 123 S (EUREKA RD.) FOR 1.4 MILES TO THE STATION MARK ON THE LEFT, WEST 112.5 FEET OF THE CENTER LINE OF PALMAR ROAD, SOUTH 51.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 29.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "360011A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	73	19.20	63.0
MK # 2	LIGHT POLE	2	23.32	76.5
MK # 3	COMBINATION POLE W/4 GUYS	100	25.73	84.4

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARHR, OKHV, SAL5	Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
Ref Mon # 2	Q 294	
Ref Mon # 3	360009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360012	<b>Date Monumented</b> 2/6/2012	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080444,080499
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	150,181.0508	0.0040	
<b>Easting (M)</b>	287,344.0681	0.0030	
<b>Elevation (M)*</b>	231.146		
<b>Northing (SFT)</b>	492,718.9975		
<b>Easting (SFT)</b>	942,727.9968		
<b>Elevation (SFT)*</b>	758.352		

  

<b>Convergence Angle</b>	0	43	27.1766298
<b>Scale Factor</b>	0.999937344		
<b>Elevation Adjust. Factor</b>	0.9999637270		
<b>Combined Adjust. Factor</b>	0.9999010732		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	40	50.1913884
<b>Longitude</b>	93	14	40.4614428
<b>Ellipsoid Height:</b>	202.949		
<b>Grid Northing (Meters)</b>	150,181.0552		
<b>Grid Easting (Meters)</b>	287,344.0691		

  

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.55 MILES TO THE MARK ON THE LEFT, 24 FEET EAST ASPHALT APRON, 18 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EAST CORNER OF A ONE STORY FR	32	12.62	41.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444.                      *****UPDATE                      D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499                      *****                 </td> </tr> </table>	Comments	3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444. *****UPDATE D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499 *****
Comments			
3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444. *****UPDATE D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499 *****			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360012A	<b>Date Monumented</b> 2/6/2012	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080444,080499
---------------------------	------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	150,121.7066 0.0040
<b>Easting (M)</b>	287,602.8337 0.0030
<b>Elevation (M)*</b>	233.641

  

<b>Northing (SFT)</b>	492,524.2991	
<b>Easting (SFT)</b>	943,576.9636	
<b>Elevation (SFT)*</b>	766.536	

  

<b>Convergence Angle</b>	0	43	21.1713798
<b>Scale Factor</b>	0.999937330		
<b>Elevation Adjust. Factor</b>	0.9999633355		
<b>Combined Adjust. Factor</b>	0.9999006678		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	35 40 48.3716892
<b>Longitude</b>	93 14 30.1412832
<b>Ellipsoid Height:</b>	205.432
<b>Grid Northing (Meters)</b>	150,121.7034
<b>Grid Easting (Meters)</b>	287,602.8364

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.65 MILES TO THE MARK ON THE LEFT, AT THE NORTH END OF A GUARD RAIL, 18.0 FEET NORTH CENTERLINE OF THE HIGHWAY, 22.5 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	8.96	29.4
MK # 2				
MK # 3				

<b>AZ Mark Station</b>	360011
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444.                      *****UPDATE                      D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499                      *****</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360200	<b>Date Monumented</b> 2/14/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> N/A	<b>Job Number:</b> 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 119,030.1981		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 254,356.5290		<b>Latitude</b> 35 23 44.0033064
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 36 12.0369672
<b>Northing (SFT)</b> 390,518.2416		<b>Ellipsoid Height (M):</b> 75.420
<b>Easting (SFT)</b> 834,501.3789		<b>Geoid Height (M):</b> -29.319
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 55 58.7432782	
<b>Scale Factor</b> 0.999941329	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

<b>Location Reference Marks</b>			
<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>	
		<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>			
<b>MK # 2</b>			
<b>MK # 3</b>			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HAR 1	
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> SALLISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360201	<b>Date Monumented</b> 2/14/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> N/A	<b>Job Number:</b> 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 119,107.4400		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 252,754.1410		<b>Latitude</b> 35 23 45.6581184
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 37 15.5806320
<b>Northing (SFT)</b> 390,771.6594		<b>Ellipsoid Height (M):</b> 77.284
<b>Easting (SFT)</b> 829,244.2109		<b>Geoid Height (M):</b> -29.327
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 56 35.7192814	
<b>Scale Factor</b> 0.999941303	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

<b>Location Description</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 SALLISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360206	<b>Date Monumented</b> 2/14/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> N/A	<b>Job Number:</b> 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 118,980.8680		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 255,259.5960		<b>Latitude</b> 35 23 42.8784540
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 35 36.2218992
<b>Northing (SFT)</b> 390,356.3978		<b>Ellipsoid Height (M):</b> 75.542
<b>Easting (SFT)</b> 837,464.1912		<b>Geoid Height (M):</b> -29.314
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 55 37.9025214	
<b>Scale Factor</b> 0.999941347	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

<b>Location Reference Marks</b>				
<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>		
		<b>Meters</b>	<b>Feet</b>	
MK # 1				<b>AZ Mark Station</b> 
MK # 2				<b>Geodetic Azimuth</b> 
MK # 3				<b>Grid Azimuth</b> 

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HAR 1	
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> SALLISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360207	<b>Date Monumented</b> 2/14/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> N/A	<b>Job Number:</b> 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE																												
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE																												
<b>Northing (M)</b> 118,939.9031		<b>Geoid Datum:</b> 																												
<b>Easting (M)</b> 256,053.7180		<b>Latitude</b> 35 23 41.9651772																												
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 35 4.7292936																												
<b>Northing (SFT)</b> 390,221.9988		<b>Ellipsoid Height (M):</b> 81.758																												
<b>Easting (SFT)</b> 840,069.5731		<b>Geoid Height (M):</b> -29.310																												
<b>Elevation (SFT)*</b> 		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>																												
<b>Convergence Angle</b> 0 55 19.5770016																														
<b>Scale Factor</b> 0.999941361																														
<b>Elevation Adjust. Factor</b> 																														
<b>Combined Adjust. Factor</b> 																														
<b>SUPERCEDED CONTROL</b>																														
<b>Horizontal Datum</b> 		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Reference Marks</b></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Description</th> <th rowspan="2">Azimuth</th> <th colspan="2">Distance</th> </tr> <tr> <th>Meters</th> <th>Feet</th> </tr> </thead> <tbody> <tr> <td>MK # 1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK # 2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK # 3</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="margin-top: 10px;"> <table style="width: 100%;"> <tr> <td style="width: 60%;"><b>AZ Mark Station</b></td> <td></td> </tr> <tr> <td><b>Geodetic Azimuth</b></td> <td></td> </tr> <tr> <td><b>Grid Azimuth</b></td> <td></td> </tr> </table> </div>		Description	Azimuth	Distance		Meters	Feet	MK # 1					MK # 2					MK # 3					<b>AZ Mark Station</b>		<b>Geodetic Azimuth</b>		<b>Grid Azimuth</b>	
	Description					Azimuth	Distance																							
			Meters	Feet																										
MK # 1																														
MK # 2																														
MK # 3																														
<b>AZ Mark Station</b>																														
<b>Geodetic Azimuth</b>																														
<b>Grid Azimuth</b>																														
<b>Latitude</b> 																														
<b>Longitude</b> 																														
<b>Ellipsoid Height:</b> 																														
<b>Grid Northing (Meters)</b> 																														
<b>Grid Easting (Meters)</b> 																														

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HAR 1 <b>Ref Mon # 2</b> AHTD LR 1 <b>Ref Mon # 3</b> SALLISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360218	<b>Date Monumented</b> 2/14/2000	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> N/A	<b>Job Number:</b> 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 120,640.0831		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 254,438.4470		<b>Latitude</b> 35 24 36.2797164
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 36 9.8294616
<b>Northing (SFT)</b> 395,800.0060		<b>Ellipsoid Height (M):</b> 78.053
<b>Easting (SFT)</b> 834,770.1382		<b>Geoid Height (M):</b> -29.280
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 55 57.4587326	
<b>Scale Factor</b> 0.999940531	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

<b>Location Description</b>			

  

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b> 
MK # 2					<b>Geodetic Azimuth</b> 
MK # 3					<b>Grid Azimuth</b> 

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> AHTD HAR 1 <b>Ref Mon # 2</b> AHTD LR 1 <b>Ref Mon # 3</b> SALLISAW 1	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360219	<b>Date Monumented</b> 9/24/2012	<b>Monumented By</b> S5112	<b>County</b> Johnson	<b>Route</b> 64	<b>Job Number:</b> 080437
--------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	126,375.4474	
<b>Easting (M)</b>	261,706.1859	
<b>Elevation (M)*</b>	121.084	
<b>Northing (SFT)</b>	414,616.7803	
<b>Easting (SFT)</b>	858,614.3782	
<b>Elevation (SFT)*</b>	397.255	

  

<b>Convergence Angle</b>	0	53	11.8986955
<b>Scale Factor</b>	0.999938170		
<b>Elevation Adjust. Factor</b>	0.9999809984		
<b>Combined Adjust. Factor</b>	0.9999191696		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.2 miles to the mark on the left, South West 32.5' of the center line, and North West 1.7' of a witness post. The mark is a standard 2.5" cap stamped "360219 2012" on top of a 4' rebar driven below the surface of the ground.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Light Pole	50	24.38	80.0	
MK # 2	SW corner Brick Building	97	30.11	98.8	
MK # 3	Nite Lite Outdoor Sign	210	20.73	68.0	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	<p>ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 &amp; X 294 BY S5112 SEPT. 2012 FOR JOB #080437.                      *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.</p>
Ref Mon # 2	ARLR	
Ref Mon # 3	ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360219A	<b>Date Monumented</b> 9/24/2012	<b>Monumented By</b> S5112	<b>County</b> Johnson	<b>Route</b> 64	<b>Job Number:</b> 080437
---------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	126,095.2662		
<b>Easting (M)</b>	261,246.4780		
<b>Elevation (M)*</b>	116.681		
<b>Northing (SFT)</b>	413,697.5525		
<b>Easting (SFT)</b>	857,106.1532		
<b>Elevation (SFT)*</b>	382.810		

  

<b>Convergence Angle</b>	0	53	22.4069168
<b>Scale Factor</b>	0.999938266		
<b>Elevation Adjust. Factor</b>	0.9999816893		
<b>Combined Adjust. Factor</b>	0.9999199565		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gas Meter	272	9.14	30.0
<b>MK # 2</b>	Combination Pole with Guy	245	13.56	44.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARHR	

  

<b>Location Description</b>
To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.5 miles to the mark on the Right, North West 28.2' of the center line and 52.5' South West of an asphalt drive. The mark is a standard 2.5" cap stamped "360219A 2012" on top of a 4' rebar driven below the surface of the ground.

  

<b>AZ Mark Station</b>	360219
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360220	<b>Date Monumented</b> 3/12/2015	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> 080497
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	116,129.1613	0.0030			
<b>Easting (M)</b>	276,892.7685	0.0030			
<b>Elevation (M)*</b>	116.006				
<b>Northing (SFT)</b>	381,000.4234				
<b>Easting (SFT)</b>	908,439.0247				
<b>Elevation (SFT)*</b>	380.597				

  

<b>Convergence Angle</b>	0	47	18.1770180
<b>Scale Factor</b>	0.999942729		
<b>Elevation Adjust. Factor</b>	0.9999817952		
<b>Combined Adjust. Factor</b>	0.9999245252		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 315 AND STATE HIGHWAY 64, EAST OF KNOXVILLE, GO EAST ON HIGHWAY 64 FOR 0.85 MILES TO THE MARK ON THE RIGHT, 44 FOOT SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 360220" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> P777	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360221	<b>Date Monumented</b> 7/27/2016	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080499
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	148,699.4617	0.0040	
<b>Easting (M)</b>	285,195.6969	0.0030	
<b>Elevation (M)*</b>	299.976		
<b>Northing (SFT)</b>	487,858.1506		
<b>Easting (SFT)</b>	935,679.5489		
<b>Elevation (SFT)*</b>	984.170		

  

<b>Convergence Angle</b>	0	44	16.4489964
<b>Scale Factor</b>	0.999936975		
<b>Elevation Adjust. Factor</b>	0.9999529263		
<b>Combined Adjust. Factor</b>	0.9998899042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARDRAIL	150	106.00	347.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM    TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360222	<b>Date Monumented</b> 8/16/2016	<b>Monumented By</b> AHTD	<b>County</b> JOHNSON	<b>Route</b> 123	<b>Job Number:</b> 080499
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	150,064.9604	0.0040	
<b>Easting (M)</b>	285,967.3250	0.0040	
<b>Elevation (M)*</b>	249.867		
<b>Northing (SFT)</b>	492,338.1242		
<b>Easting (SFT)</b>	938,211.1321		
<b>Elevation (SFT)*</b>	819.771		

  

<b>Convergence Angle</b>	0	43	59.0005283
<b>Scale Factor</b>	0.999937310		
<b>Elevation Adjust. Factor</b>	0.9999607893		
<b>Combined Adjust. Factor</b>	0.9998981018		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF NORTH EDGE OF HAW CR FALL	150	14.80	48.6
MK # 2	SOUTH END OF FLARED CMP	70	27.00	88.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM    TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    40    45.8565348
<b>Longitude</b>	93    15    35.1511992
<b>Ellipsoid Height (M):</b>	221.562    0.0110
<b>Geoid Height (M):</b>	-28.265    0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123N AND STATE HIGHWAY 164E, IN HARGARVILLE, GO NORTH ON 123 FOR 14.5 MILES TO THE MARK ON THE RIGHT AND WEST 35 FEET OF THE CENTER LINE OF THE DRIVE TO HAW CREEK FALLS AND SOUTH 17.6' OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 360222" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	N/A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360223	<b>Date Monumented</b> 9/25/2019	<b>Monumented By</b> ARDOT	<b>County</b> JOHNSON	<b>Route</b> 103	<b>Job Number:</b> 080617
--------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	151,231.9485	0.0020
<b>Easting (M)</b>	255,335.2812	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	496,166.8177	
<b>Easting (SFT)</b>	837,712.5017	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	55	48.2294554
<b>Scale Factor</b>	0.999937504		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARFY	
Ref Mon # 2    ARHR	
Ref Mon # 3    ARR V	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    41    9.2940072
<b>Longitude</b>	93    35    53.9688480
<b>Ellipsoid Height (M):</b>	267.856    0.0090
<b>Geoid Height (M):</b>	-28.349    0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO SOUTH ON HIGHWAY 103 0.15 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 18.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 360223A	<b>Date Monumented</b> 9/25/2019	<b>Monumented By</b> ARDOT	<b>County</b> JOHNSON	<b>Route</b> 215	<b>Job Number:</b> 080617
---------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	151,308.6517 0.0020
<b>Easting (M)</b>	255,717.7886 0.0020
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	496,418.4681
<b>Easting (SFT)</b>	838,967.4448
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	55	39.4067022
<b>Scale Factor</b>	0.999937527		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	233	17.22	56.5
<b>MK # 2</b>	FENCE CORNER	240	24.54	80.5
<b>MK # 3</b>	NORTH END OF FENCE	107	12.68	41.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARRV	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 41 11.9837580
<b>Longitude</b>	93 35 38.8068504
<b>Ellipsoid Height (M):</b>	271.040 0.0090
<b>Geoid Height (M):</b>	-28.344 0.0090

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO NORTH ON HIGHWAY 215 0.1 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 21.2 AND 96.5' WEST OF A DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370001	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,558.7771	
<b>Easting (M)</b>	243,220.8840	
<b>Elevation (M)*</b>	69.901	
<b>Northing (SFT)</b>	1,566,790.7545	
<b>Easting (SFT)</b>	797,967.1836	
<b>Elevation (SFT)*</b>	229.334	

  

<b>Convergence Angle</b>	0	56	34.0389353
<b>Scale Factor</b>	0.999988407		
<b>Elevation Adjust. Factor</b>	0.9999890304		
<b>Combined Adjust. Factor</b>	0.9999774375		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> MAGAPORT	
<b>Ref Mon # 3</b> GARLAND	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	33	21	15.5068380
<b>Longitude</b>	93	41	4.1333064
<b>Ellipsoid Height (M):</b>	42.630		
<b>Geoid Height (M):</b>	-27.271		

  

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 ON THE WEST EDGE OF GARLAND CITY, GO EAST ON HWY. 82 FOR 3.70 KM (2.30 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.8 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 11.20 METERS WEST OF THE CENTER OF A PAVED STREET, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370001A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,923.4011	
<b>Easting (M)</b>	242,662.6140	
<b>Elevation (M)*</b>	70.466	
<b>Northing (SFT)</b>	1,567,987.0251	
<b>Easting (SFT)</b>	796,135.5928	
<b>Elevation (SFT)*</b>	231.187	

  

<b>Convergence Angle</b>	0	56	46.2528164
<b>Scale Factor</b>	0.999987751		
<b>Elevation Adjust. Factor</b>	0.9999889417		
<b>Combined Adjust. Factor</b>	0.9999766928		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE BRACE POST	158	1.85	6.1
<b>MK # 2</b>	NBC IN GATE POST	297	10.25	33.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> GARLAND	

  

Location Description	
FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 2.98 KM (1.85 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 23.5 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.20 METERS EAST OF A PAVED FIELD ENTRANCE AND 1.0 METERS NORTHEAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370002	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,882.2721	
<b>Easting (M)</b>	247,646.1750	
<b>Elevation (M)*</b>	70.590	
<b>Northing (SFT)</b>	1,567,852.0877	
<b>Easting (SFT)</b>	812,485.8258	
<b>Elevation (SFT)*</b>	231.594	

  

<b>Convergence Angle</b>	0	54	58.3663932
<b>Scale Factor</b>	0.999987677		
<b>Elevation Adjust. Factor</b>	0.9999889222		
<b>Combined Adjust. Factor</b>	0.9999765994		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST END OF BRIDGE	240	4.15	13.6
<b>MK # 2</b>	NORTHEASTERN MOST GUARD RAIL POST	80	12.35	40.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> GARLAND	RECOVERED 7/10/2000 BY S5111     

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 28.3358988
<b>Longitude</b>	93 38 13.1950644
<b>Ellipsoid Height (M):</b>	43.347
<b>Geoid Height (M):</b>	-27.243

  

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 8.21 KM (5.10 MILES) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL ON THE NORTHEAST END OF THE BRIDGE. THE STATION IS 6.40 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.10 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370002A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,923.9261	
<b>Easting (M)</b>	248,068.6280	
<b>Elevation (M)*</b>	70.671	
<b>Northing (SFT)</b>	1,567,988.7475	
<b>Easting (SFT)</b>	813,871.8237	
<b>Elevation (SFT)*</b>	231.860	

  

<b>Convergence Angle</b>	0	54	49.2364772
<b>Scale Factor</b>	0.999987588		
<b>Elevation Adjust. Factor</b>	0.9999889095		
<b>Combined Adjust. Factor</b>	0.9999764977		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST BRIDGE CORNER	245	7.90	25.9
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	80	4.55	14.9
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MAGAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GARLAND</td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	MAGAPORT	Ref Mon # 3	GARLAND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>RECOVERED 7/10/2000 BY S5111</td> </tr> </table>	Comments	RECOVERED 7/10/2000 BY S5111
Ref Mon # 1	HOPEPORT								
Ref Mon # 2	MAGAPORT								
Ref Mon # 3	GARLAND								
Comments									
RECOVERED 7/10/2000 BY S5111									

  

Location Description	
FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 8.61 KM (5.35 MILES) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL ON THE NORTHEASTERN MOST END OF THE BRIDGE. THE STATION IS 6.50 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 0.65 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370002A" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370003	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	477,680.3011		
<b>Easting (M)</b>	252,048.4710		
<b>Elevation (M)*</b>	83.564		
<b>Northing (SFT)</b>	1,567,189.4545		
<b>Easting (SFT)</b>	826,929.0253		
<b>Elevation (SFT)*</b>	274.160		

  

<b>Convergence Angle</b>	0	53	23.0070532
<b>Scale Factor</b>	0.999987922		
<b>Elevation Adjust. Factor</b>	0.9999868863		
<b>Combined Adjust. Factor</b>	0.9999748084		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	332	26.10	85.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MAGAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GARLAND</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	HOPEPORT	Ref Mon # 2	MAGAPORT	Ref Mon # 3	GARLAND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>NOT FOUND 7/10/2000 BY S5111</td> </tr> </table>	Comments	NOT FOUND 7/10/2000 BY S5111
Area Reference Monuments (used for Processing)											
Ref Mon # 1	HOPEPORT										
Ref Mon # 2	MAGAPORT										
Ref Mon # 3	GARLAND										
Comments											
NOT FOUND 7/10/2000 BY S5111											

  

Location Description	
<p>FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 15.0 METERS SOUTH OF THE CENTER OF A PAVED STREET AND 1.14 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

  

<b>AZ Mark Station</b>	370003A
<b>Geodetic Azimuth</b>	100 36 25.01276
<b>Grid Azimuth</b>	101 29 47.87765

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370003A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,528.9472	
<b>Easting (M)</b>	252,792.6270	
<b>Elevation (M)*</b>	82.080	
<b>Northing (SFT)</b>	1,566,692.8876	
<b>Easting (SFT)</b>	829,370.4771	
<b>Elevation (SFT)*</b>	269.291	

  

<b>Convergence Angle</b>	0	53	6.8487457
<b>Scale Factor</b>	0.999988180		
<b>Elevation Adjust. Factor</b>	0.9999871191		
<b>Combined Adjust. Factor</b>	0.9999752993		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	250	13.30	43.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> GARLAND	NOT FOUND 7/10/2000 BY S5111     

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 19.4947668
<b>Longitude</b>	93 34 53.9463540
<b>Ellipsoid Height (M):</b>	54.876
<b>Geoid Height (M):</b>	-27.204

  

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 0.48 KM (0.30 MILES) TO THE STATION ON THE LEFT SOUTHWEST AND ACROSS THE HIGHWAY FROM THE LEWISVILLE MUNICIPAL BUILDING. THE STATION IS 13.0 METERS SOUTH OF THE CENTER LINE OF HWY. 82, 6.0 METERS EAST OF A PAVED PULL-OFF, 13.5 METERS NORTH OF THE NORTH RAIL OF A RAILROAD TRACK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003A" SET ON TOP OF A3/4" REBAR THAT IS 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370004	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	477,895.1331				
<b>Easting (M)</b>	255,039.1990				
<b>Elevation (M)*</b>	98.776				
<b>Northing (SFT)</b>	1,567,894.2825				
<b>Easting (SFT)</b>	836,741.1054				
<b>Elevation (SFT)*</b>	324.068				

  

<b>Convergence Angle</b>	0	52	18.3415466
<b>Scale Factor</b>	0.999987441		
<b>Elevation Adjust. Factor</b>	0.9999844991		
<b>Combined Adjust. Factor</b>	0.9999719403		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	19	24.30	79.7
<b>MK # 2</b>	NBC IN FENCE POST	320	12.55	41.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> BEECH	NOT FOUND 7/10/2000 BY S5111

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 32.4973980
<b>Longitude</b>	93 33 27.2784852
<b>Ellipsoid Height (M):</b>	71.585
<b>Geoid Height (M):</b>	-27.191

  

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO EAST ON HWY. 82 FOR 1.93 KM (1.20 MILES) TO THE STATION ON THE LEFT ON TOP OF A HIGH BANK ABOUT 3.0 METERS ABOVE THE ROAD SURFACE. THE STATION IS 21.4 METERS NORTH OF THE CENTERLINE OF HWY. 82, 12.55 METERS SOUTH OF A FENCE AND 1.0 METER SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370004" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370004A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	477,684.6641				
<b>Easting (M)</b>	254,779.7500				
<b>Elevation (M)*</b>	92.994				
<b>Northing (SFT)</b>	1,567,203.7688				
<b>Easting (SFT)</b>	835,889.8965				
<b>Elevation (SFT)*</b>	305.098				

  

<b>Convergence Angle</b>	0	52	23.8881966
<b>Scale Factor</b>	0.999987836		
<b>Elevation Adjust. Factor</b>	0.9999854064		
<b>Combined Adjust. Factor</b>	0.9999732426		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> MAGAPORT <b>Ref Mon # 3</b> BEECH	REBAR BENT, CAP MISSING 7/10/2000 BY S5111    

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 25.5383568
<b>Longitude</b>	93 33 37.1886912
<b>Ellipsoid Height (M):</b>	65.803
<b>Geoid Height (M):</b>	-27.191

  

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO EAST ON HWY. 82 FOR 1.61 KM (1.0 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.4 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 82 AND 2.2 METERS NORTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370004A" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370005	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	478,435.5391	
<b>Easting (M)</b>	262,765.2780	
<b>Elevation (M)*</b>	85.728	
<b>Northing (SFT)</b>	1,569,667.2645	
<b>Easting (SFT)</b>	862,089.0829	
<b>Elevation (SFT)*</b>	281.259	

  

<b>Convergence Angle</b>	0	49	31.2674344
<b>Scale Factor</b>	0.999986242		
<b>Elevation Adjust. Factor</b>	0.9999865467		
<b>Combined Adjust. Factor</b>	0.9999727888		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN CORNER POST OF FENCE	286	23.20	76.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> MAGAPORT	
<b>Ref Mon # 3</b> BEECH	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 53.7504120
<b>Longitude</b>	93 28 28.7669748
<b>Ellipsoid Height (M):</b>	58.617
<b>Geoid Height (M):</b>	-27.146

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 82T IN THE EASTERN PART OF STAMPS, GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 120 METERS WEST OF A PAVED ROAD LEADING NORTH, 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 33 METERS EAST OF A PAVED DRIVEWAY AND 2.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005" SET ON TOP OF A 3/4" REBAR 1.22 METERS LONG AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370005A	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	478,252.9101	
<b>Easting (M)</b>	263,386.7890	
<b>Elevation (M)*</b>	88.663	
<b>Northing (SFT)</b>	1,569,068.0892	
<b>Easting (SFT)</b>	864,128.1569	
<b>Elevation (SFT)*</b>	290.889	

  

<b>Convergence Angle</b>	0	49	17.7562585
<b>Scale Factor</b>	0.999986559		
<b>Elevation Adjust. Factor</b>	0.9999860861		
<b>Combined Adjust. Factor</b>	0.9999726453		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	132	17.60	57.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> MAGAPORT	
<b>Ref Mon # 3</b> BEECH	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 48.1130172
<b>Longitude</b>	93 28 4.6265412
<b>Ellipsoid Height (M):</b>	61.572
<b>Geoid Height (M):</b>	-27.140

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 2.01 KM (1.25 MILES) TO THE STATION ON THE RIGHT IN A ROADSIDE PARK. THE STATION IS 20.2 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 20.4 METERS NORTH OF THE CENTER OF THE ROAD GOING THROUGH THE PARK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370006	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01,030343
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,924.5147	
<b>Easting (M)</b>	264,993.0009	
<b>Elevation (M)*</b>	96.963	
<b>Northing (SFT)</b>	1,567,990.6786	
<b>Easting (SFT)</b>	869,397.8705	
<b>Elevation (SFT)*</b>	318.121	

  

<b>Convergence Angle</b>	0	48	42.8847654
<b>Scale Factor</b>	0.999987118		
<b>Elevation Adjust. Factor</b>	0.9999847835		
<b>Combined Adjust. Factor</b>	0.9999719017		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	21	38.2088052
<b>Longitude</b>	93	27	2.3082048
<b>Ellipsoid Height:</b>	69.856		
<b>Grid Northing (Meters)</b>	477,924.8451		
<b>Grid Easting (Meters)</b>	264,993.3520		

  

Location Description			
<p>FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 3.70 KM (2.30 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.20 METERS SOUTH OF A WITNESS POST SET IN A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		284	19.00	62.3
MK # 2	NONE				
MK # 3	NONE				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> <p>***PREVIOUS ELEV. (96.962 m) FROM UNDOCUMENTED SOURCE***                      PREVIOUS UPDATED ELEV. (318.1244') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).                      *****UPDATE</p> </td> </tr> </table>	Comments	<p>***PREVIOUS ELEV. (96.962 m) FROM UNDOCUMENTED SOURCE***                      PREVIOUS UPDATED ELEV. (318.1244') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).                      *****UPDATE</p>
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
<p>***PREVIOUS ELEV. (96.962 m) FROM UNDOCUMENTED SOURCE***                      PREVIOUS UPDATED ELEV. (318.1244') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).                      *****UPDATE</p>											

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370007	<b>Date Monumented</b> 4/20/1994	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> RX0018,07ST01
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	477,729.2723				
<b>Easting (M)</b>	267,732.7677				
<b>Elevation (M)*</b>	81.267				
<b>Northing (SFT)</b>	1,567,350.1209				
<b>Easting (SFT)</b>	878,386.5887				
<b>Elevation (SFT)*</b>	266.625				

  

<b>Convergence Angle</b>	0	47	43.5181766
<b>Scale Factor</b>	0.999987406		
<b>Elevation Adjust. Factor</b>	0.9999872466		
<b>Combined Adjust. Factor</b>	0.9999746528		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	21	33.1196112
<b>Longitude</b>	93	25	16.2388884
<b>Ellipsoid Height:</b>	54.199		
<b>Grid Northing (Meters)</b>	477,729.6091		
<b>Grid Easting (Meters)</b>	267,733.0920		

  

Location Description				
<p>FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER. GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS 24.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 37.0 METERS WEST OF AN OLD DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	72	24.10	79.1
MK # 2	UNDERGROUND GAS LINE MARKER	340	12.00	39.4
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARHP</p> <p>Ref Mon # 2    ARCM</p> <p>Ref Mon # 3    SHRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>***PREVIOUS ELEV. (81.310 m) FROM UNDOCUMENTED SOURCE***            UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370008	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	448,545.3899	
<b>Easting (M)</b>	226,802.1067	
<b>Elevation (M)*</b>	66.177	
<b>Northing (SFT)</b>	1,471,602.6667	
<b>Easting (SFT)</b>	744,099.9117	
<b>Elevation (SFT)*</b>	217.116	

  

<b>Convergence Angle</b>	-1	2	18.0257115
<b>Scale Factor</b>	1.000053137		
<b>Elevation Adjust. Factor</b>	0.9999896148		
<b>Combined Adjust. Factor</b>	1.0000427512		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE EAST END OF THE BRIDGE AND THE STATION ON THE LEFT. THE STATION IS 9.45 METERS EAST OF THE NORTHEAST CORNER OF THE BRIDGE, 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN TOP OF A GUARD RAIL POST	242	4.05	13.3
<b>MK # 2</b>	PUNCH MARK IN TOP OF A GUARD RAIL POST	176	1.05	3.4
<b>MK # 3</b>	PUNCH MARK IN TOP OF A GUARD RAIL POST	90	5.70	18.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input type="text" value="MOSS"/></p> <p><b>Ref Mon # 2</b> <input type="text" value="X 303"/></p> <p><b>Ref Mon # 3</b> <input type="text" value="AHTD HOPE 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370008A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	448,648.9121	
<b>Easting (M)</b>	227,376.1251	
<b>Elevation (M)*</b>	64.182	
<b>Northing (SFT)</b>	1,471,942.3058	
<b>Easting (SFT)</b>	745,983.1704	
<b>Elevation (SFT)*</b>	210.570	

  

<b>Convergence Angle</b>	-1	2	5.6800689
<b>Scale Factor</b>	1.000052845		
<b>Elevation Adjust. Factor</b>	0.9999899279		
<b>Combined Adjust. Factor</b>	1.0000427723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	MOSS
<b>Ref Mon # 2</b>	X 303
<b>Ref Mon # 3</b>	AHTD HOPE 1

  

Comments
ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 5 28.3969464
<b>Longitude</b>	93 50 56.6769048
<b>Ellipsoid Height (M):</b>	37.803
<b>Geoid Height (M):</b>	-26.456

  

Location Description
TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370009	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	450,531.7246	
<b>Easting (M)</b>	230,709.1152	
<b>Elevation (M)*</b>	67.472	
<b>Northing (SFT)</b>	1,478,119.4998	
<b>Easting (SFT)</b>	756,918.1555	
<b>Elevation (SFT)*</b>	221.365	

  

<b>Convergence Angle</b>	-1	0	54.4804124
<b>Scale Factor</b>	1.000047911		
<b>Elevation Adjust. Factor</b>	0.9999894115		
<b>Combined Adjust. Factor</b>	1.0000373220		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 4.86 KM (3.02 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 20.17 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 785.325 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MOSS</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
---	--

  

<b>AZ Mark Station</b>	370009A
<b>Geodetic Azimuth</b>	181 32 24.35644
<b>Grid Azimuth</b>	182 33 18.84234

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370009A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,747.1467	
<b>Easting (M)</b>	230,674.1020	
<b>Elevation (M)*</b>	62.997	
<b>Northing (SFT)</b>	1,475,545.4305	
<b>Easting (SFT)</b>	756,803.2830	
<b>Elevation (SFT)*</b>	206.683	

  

<b>Convergence Angle</b>	-1	0	54.9360025
<b>Scale Factor</b>	1.000049894		
<b>Elevation Adjust. Factor</b>	0.9999901138		
<b>Combined Adjust. Factor</b>	1.0000400073		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 4.86 KM (3.02 MI) TO THE JUNCTION OF COUNTY ROAD 57 ON THE RIGHT, TURN RIGHT AND GO SOUTH ON COUNTY ROAD 57 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.90 METERS EAST OF THE CENTER OF COUNTY ROAD 57 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 785.325 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MOSS</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
---	--

  

<b>AZ Mark Station</b>	370009
<b>Geodetic Azimuth</b>	1 32 23.911844
<b>Grid Azimuth</b>	2 33 18.842339

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370010	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,836.1058	
<b>Easting (M)</b>	234,025.2755	
<b>Elevation (M)*</b>	63.853	
<b>Northing (SFT)</b>	1,485,679.7904	
<b>Easting (SFT)</b>	767,797.9247	
<b>Elevation (SFT)*</b>	209.490	

  

<b>Convergence Angle</b>	0	59	43.7732507
<b>Scale Factor</b>	1.000042033		
<b>Elevation Adjust. Factor</b>	0.9999899795		
<b>Combined Adjust. Factor</b>	1.0000320121		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 70 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 160, 28.00 METERS EAST OF THE CENTER OF A PAVED ROAD, 6.65 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MOSS</p> <p><b>Ref Mon # 2</b>    X 303</p> <p><b>Ref Mon # 3</b>    AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370010A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,806.8243	
<b>Easting (M)</b>	234,861.5837	
<b>Elevation (M)*</b>	63.471	
<b>Northing (SFT)</b>	1,485,583.7227	
<b>Easting (SFT)</b>	770,541.7125	
<b>Elevation (SFT)*</b>	208.239	

  

<b>Convergence Angle</b>	0	59	25.7081251
<b>Scale Factor</b>	1.000042069		
<b>Elevation Adjust. Factor</b>	0.9999900394		
<b>Combined Adjust. Factor</b>	1.0000321079		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 10.3 KM (6.4 MI) TO THE RED RIVER BAPTIST CHURCH AND THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTER OF THE EAST ENTRANCE TO THE CHURCH, 8.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	89	15.20	49.9
MK # 2	EAST END OF RCP	237	5.25	17.2
MK # 3	GAS METER	258	1.85	6.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="MOSS"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="X 303"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="AHTD HOPE 1"/>	<p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370011	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,205.4258	
<b>Easting (M)</b>	239,082.3182	
<b>Elevation (M)*</b>	64.454	
<b>Northing (SFT)</b>	1,483,610.6345	
<b>Easting (SFT)</b>	784,389.2390	
<b>Elevation (SFT)*</b>	211.462	

  

<b>Convergence Angle</b>	0	57	54.3717719
<b>Scale Factor</b>	1.000043374		
<b>Elevation Adjust. Factor</b>	0.9999898852		
<b>Combined Adjust. Factor</b>	1.0000332588		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	275	1.00	3.3
<b>MK # 2</b>	SOUTH END OF CMP	13	4.45	14.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> MOSS <b>Ref Mon # 2</b> X 303 <b>Ref Mon # 3</b> AHTD HOPE 1	<b>Comments</b> ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
---	---

  

Location Description			
TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 14.92 KM (9.27 MI) TO THE BUMPHAM BAPTIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 160, 8.30 METERS SOUTH OF A GRAVEL ROAD AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.934 METERS.			

  

<b>AZ Mark Station</b>	370011A
<b>Geodetic Azimuth</b>	164 49 08.27583
<b>Grid Azimuth</b>	165 47 02.62085

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370011A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,817.7208	
<b>Easting (M)</b>	239,180.5375	
<b>Elevation (M)*</b>	64.938	
<b>Northing (SFT)</b>	1,482,338.6390	
<b>Easting (SFT)</b>	784,711.4801	
<b>Elevation (SFT)*</b>	213.050	

  

<b>Convergence Angle</b>	0	57	52.1106240
<b>Scale Factor</b>	1.000044331		
<b>Elevation Adjust. Factor</b>	0.9999898092		
<b>Combined Adjust. Factor</b>	1.0000341398		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	169	24.01	78.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 7 17.9201136
<b>Longitude</b>	93 43 23.6240832
<b>Ellipsoid Height (M):</b>	38.566
<b>Geoid Height (M):</b>	-26.426

Location Description
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 15.35 KM (9.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 160 AND 0.96 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.934 METERS.</p>

<b>AZ Mark Station</b>	370011
<b>Geodetic Azimuth</b>	344 49 10.48346
<b>Grid Azimuth</b>	345 47 02.62085

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370012	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	450,070.1644	
<b>Easting (M)</b>	241,576.8308	
<b>Elevation (M)*</b>	78.008	
<b>Northing (SFT)</b>	1,476,605.1977	
<b>Easting (SFT)</b>	792,573.3190	
<b>Elevation (SFT)*</b>	255.931	

  

<b>Convergence Angle</b>	0	56	59.7584453
<b>Scale Factor</b>	1.000048604		
<b>Elevation Adjust. Factor</b>	0.9999877582		
<b>Combined Adjust. Factor</b>	1.0000363616		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 5.36 KM (3.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS FROM USC&amp;GS BENCH MARK K 199 BY CREW S5102.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>MOSS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD HOPE 1</td> </tr> </table>	Ref Mon # 1	MOSS	Ref Mon # 2	X 303	Ref Mon # 3	AHTD HOPE 1	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</td> </tr> </table>	Comments	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 1	MOSS								
Ref Mon # 2	X 303								
Ref Mon # 3	AHTD HOPE 1								
Comments									
ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370012A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	450,054.5174	
<b>Easting (M)</b>	242,082.9086	
<b>Elevation (M)*</b>	78.081	
<b>Northing (SFT)</b>	1,476,553.8625	
<b>Easting (SFT)</b>	794,233.6760	
<b>Elevation (SFT)*</b>	256.171	

  

<b>Convergence Angle</b>	0	56	48.8305453
<b>Scale Factor</b>	1.000048622		
<b>Elevation Adjust. Factor</b>	0.9999877467		
<b>Combined Adjust. Factor</b>	1.0000363681		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input type="text" value="MOSS"/></p> <p><b>Ref Mon # 2</b> <input type="text" value="X 303"/></p> <p><b>Ref Mon # 3</b> <input type="text" value="AHTD HOPE 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
--	--

  

<b>AZ Mark Station</b>	370012
<b>Geodetic Azimuth</b>	270 49 26.32558
<b>Grid Azimuth</b>	271 46 15.28789

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370013	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 160	<b>Job Number:</b> 030182
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,075.1284	
<b>Easting (M)</b>	245,488.7046	
<b>Elevation (M)*</b>	78.875	

  

<b>Northing (SFT)</b>	1,473,340.6504	
<b>Easting (SFT)</b>	805,407.5250	
<b>Elevation (SFT)*</b>	258.776	

  

<b>Convergence Angle</b>	0	55	34.9835014
<b>Scale Factor</b>	1.000050964		
<b>Elevation Adjust. Factor</b>	0.9999876221		
<b>Combined Adjust. Factor</b>	1.0000385854		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160 LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160, 9.15 METERS WEST OF THE WEST RAIL AND 1.23 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370013 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MOSS</p> <p><b>Ref Mon # 2</b>    X 303</p> <p><b>Ref Mon # 3</b>    AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
--	--

  

<b>AZ Mark Station</b>	370013A
<b>Geodetic Azimuth</b>	188 37 58.71861
<b>Grid Azimuth</b>	189 33 33.72956

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370013A	<b>Date Monumented</b> 6/6/2000	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 29	<b>Job Number:</b> 030182
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	448,390.0532	
<b>Easting (M)</b>	245,373.3324	
<b>Elevation (M)*</b>	77.377	
<b>Northing (SFT)</b>	1,471,093.0329	
<b>Easting (SFT)</b>	805,029.0080	
<b>Elevation (SFT)*</b>	253.861	

  

<b>Convergence Angle</b>	0	55	37.2340510
<b>Scale Factor</b>	1.000052719		
<b>Elevation Adjust. Factor</b>	0.9999878572		
<b>Combined Adjust. Factor</b>	1.0000405755		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO SOUTH ON STATE HIGHWAY 29 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.52 METERS WEST OF THE CENTER OF STATE HIGHWAY 29, 6.40 METERS EAST OF THE CENTER OF A PAVED ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "370013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MOSS</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: AHTD HOPE 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
---	--

  

<b>AZ Mark Station</b>	370013
<b>Geodetic Azimuth</b>	8 37 56.523014
<b>Grid Azimuth</b>	9 33 33.729559

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370014	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 29	<b>Job Number:</b> 030348
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,910.7631	
<b>Easting (M)</b>	252,350.3770	
<b>Elevation (M)*</b>	114.378	
<b>Northing (SFT)</b>	1,587,630.5619	
<b>Easting (SFT)</b>	827,919.5285	
<b>Elevation (SFT)*</b>	375.254	

  

<b>Convergence Angle</b>	0	53	18.5636099
<b>Scale Factor</b>	0.999976891		
<b>Elevation Adjust. Factor</b>	0.9999820507		
<b>Combined Adjust. Factor</b>	0.9999589421		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 2    ARHP	
Ref Mon # 3    TXMA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 46.3947192
<b>Longitude</b>	93 35 14.8773156
<b>Ellipsoid Height (M):</b>	87.696
<b>Geoid Height (M):</b>	-26.682

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 82 AND ARKANSAS STATE HIGHWAY 29, IN LEWISVILLE, GO NORTH ON HIGHWAY 29 3.95 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF THE CENTERLINE OF COUNTY ROAD 309 121.0 FEET, EAST OF THE CENTERLINE OF THE HIGHWAY 42.0 FEET AND WEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370014 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370014A	<b>Date Monumented</b> 6/25/2007	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 29	<b>Job Number:</b> 030348
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	484,430.2531				
<b>Easting (M)</b>	252,106.3210				
<b>Elevation (M)*</b>	114.432				
<b>Northing (SFT)</b>	1,589,334.9220				
<b>Easting (SFT)</b>	827,118.8215				
<b>Elevation (SFT)*</b>	375.433				

  

<b>Convergence Angle</b>	0	53	24.0245910
<b>Scale Factor</b>	0.999976021		
<b>Elevation Adjust. Factor</b>	0.9999820422		
<b>Combined Adjust. Factor</b>	0.9999580636		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 82 AND ARKANSAS STATE HIGHWAY 29, IN LEWISVILLE, GO NORTH ON HIGHWAY 29 4.3 MILES TO THE STATION MARK ON THE RIGHT, EAST OF THE CENTLINE OF THE HIGHWAY 42.0 FEET AND WEST 7.0 FEET OF A WITNESS POST. THE STATION MARK IS A STAANDARD 2 1/2 INCH CAP STAMPED "370014A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	41.15	135.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TXMA</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	TXMA	<b>Comments</b> 3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 1	ARCM						
Ref Mon # 2	ARHP						
Ref Mon # 3	TXMA						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370015	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> 030343,07ST01
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	478,548.7049	
<b>Easting (M)</b>	260,200.2478	
<b>Elevation (M)*</b>	82.056	
<b>Northing (SFT)</b>	1,570,038.5427	
<b>Easting (SFT)</b>	853,673.6463	
<b>Elevation (SFT)*</b>	269.213	

  

<b>Convergence Angle</b>	0	50	26.8309270
<b>Scale Factor</b>	0.999986104		
<b>Elevation Adjust. Factor</b>	0.9999871228		
<b>Combined Adjust. Factor</b>	0.9999732270		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.9 MILES TO THE STATION MARK ON THE LEFT, SOUTH 40.2 FEET OF THE CENTERLINE HIGHWAY 82 AND NORTH 1 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)		<b>Comments</b> <p>PREVIOUS ELEV. (269.2135') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p> <p>*****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB</p>
Ref Mon # 1	ARHP	
Ref Mon # 2	ARCM	
Ref Mon # 3	SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370015A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> 030343,07ST01
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	478,543.0043	
<b>Easting (M)</b>	260,863.6792	
<b>Elevation (M)*</b>	95.623	
<b>Northing (SFT)</b>	1,570,019.8399	
<b>Easting (SFT)</b>	855,850.2542	
<b>Elevation (SFT)*</b>	313.725	

  

<b>Convergence Angle</b>	0	50	12.4670935
<b>Scale Factor</b>	0.999986097		
<b>Elevation Adjust. Factor</b>	0.9999849938		
<b>Combined Adjust. Factor</b>	0.9999710910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 29.5 FEET OF THE CENTERLINE OF OPERA STREET, NORTH 25.6 FEET OF THE CENTERLINE HIGHWAY 82 AND SOUTH 4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	66	3.20	10.5
MK # 2	TELEPHONE BOX	245	1.65	5.4
MK # 3	SOUTHEAST CORNER I-S-F HOUSE	325	8.17	26.8

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARHP	<p>PREVIOUS ELEV. (313.7220') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).                      *****UPDATE                      D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB</p>
Ref Mon # 2	ARCM	
Ref Mon # 3	SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370016	<b>Date Monumented</b> 5/8/2012	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> 07ST01,030343
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,962.8401	
<b>Easting (M)</b>	264,637.2603	
<b>Elevation (M)*</b>	98.001	
<b>Northing (SFT)</b>	1,568,116.4179	
<b>Easting (SFT)</b>	868,230.7448	
<b>Elevation (SFT)*</b>	321.526	

  

<b>Convergence Angle</b>	0	48	50.5972572
<b>Scale Factor</b>	0.999987057		
<b>Elevation Adjust. Factor</b>	0.9999846206		
<b>Combined Adjust. Factor</b>	0.9999716778		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	110	18.47	60.6
<b>MK # 2</b>	COMBINATION POLE WITH GUY	276	38.40	126.0
<b>MK # 3</b>	FENCE CORNER	273	38.40	126.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> SHRV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33 21 39.2779584
<b>Longitude</b>	93 27 16.1015220
<b>Ellipsoid Height (M):</b>	71.456
<b>Geoid Height (M):</b>	-26.547

  

Location Description
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 53 NORTH, IN BUCKNER GO WEST ON HIGHWAY 82, 1.15 MILES TO THE STATION ON THE LEFT. SOUTH 69.0 FEET OF THE CENTER LINE OF HIGHWAY 82,NORTH 3.0 FEET OF A WITNESS POST THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370016 2012 ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370017	<b>Date Monumented</b> 3/19/2013	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> 030343
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	478,590.6346	0.0010			
<b>Easting (M)</b>	257,077.8930	0.0020			
<b>Elevation (M)*</b>	78.104				
<b>Northing (SFT)</b>	1,570,176.1070				
<b>Easting (SFT)</b>	843,429.7206				
<b>Elevation (SFT)*</b>	256.245				

  

<b>Convergence Angle</b>	0	51	34.4372087
<b>Scale Factor</b>	0.999986112		
<b>Elevation Adjust. Factor</b>	0.9999877431		
<b>Combined Adjust. Factor</b>	0.9999738553		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CONC HDWL	270	7.74	25.4
MK # 2	COMBINATION POLE	180	5.94	19.5
MK # 3	TELEPHONE RISER	165	6.10	20.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> SHRV <b>Ref Mon # 3</b> TXCR	ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.5 MILES TO THE MARK ON THE RIGHT, IN FRONT OF TRINITY BAPTIST CHURCH, 41 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 19.3 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33    21    56.0698056
<b>Longitude</b>	93    32    8.8345536
<b>Ellipsoid Height (M):</b>	51.499    0.0072
<b>Geoid Height (M):</b>	-26.605

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370017A	<b>Date Monumented</b> 3/19/2013	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> 82	<b>Job Number:</b> 030343
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	478,654.5745 0.0010
<b>Easting (M)</b>	257,757.8761 0.0020
<b>Elevation (M)*</b>	77.385
<b>Northing (SFT)</b>	1,570,385.8832
<b>Easting (SFT)</b>	845,660.6318
<b>Elevation (SFT)*</b>	253.887

  

<b>Convergence Angle</b>	0 51 19.7376105
<b>Scale Factor</b>	0.999985977
<b>Elevation Adjust. Factor</b>	0.9999878559
<b>Combined Adjust. Factor</b>	0.9999738331

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>		3rd Order - Digital Levels	
<b>Elevation Datum:</b>		NAVD 88	
<b>Geoid Datum:</b>		Geoid 96	
<b>Latitude</b>	33 21	58.4753148	
<b>Longitude</b>	93 31	42.5707644	
<b>Ellipsoid Height (M):</b>	50.784	0.0067	
<b>Geoid Height (M):</b>	-26.601		

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.9 MILES TO THE MARK ON THE RIGHT, 46.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 29.7 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017A 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	252	25.48	83.6
MK # 2	COMBINATION POLE W/ 3 GUYS	121	28.35	93.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> SHRV <b>Ref Mon # 3</b> TXCR	ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370018	<b>Date Monumented</b> 1/20/2015	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> CR 25	<b>Job Number:</b> BR3714
--------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	487,187.0815	0.0030	
<b>Easting (M)</b>	253,882.0627	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,598,379.6166		
<b>Easting (SFT)</b>	832,944.7340		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	52	46.4771272
<b>Scale Factor</b>	0.999971438		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.0 MILES TO THE MARK ON THE RIGHT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018" ON TOP OF A 4 FOOT REBAR DRIVEN 0.7 BELOW THE SURFACE OF THE GROUND, 24.25 FOOT WEST OF A WITNESS POST AND 11.4 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					370018A
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="SHRV"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="ARHP"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ARCM"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370018A	<b>Date Monumented</b> 1/20/2015	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> CR 25	<b>Job Number:</b> BR3714
---------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	487,906.8253	0.0030			
<b>Easting (M)</b>	253,916.2473	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,600,740.9760				
<b>Easting (SFT)</b>	833,056.8880				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	52	45.9758254
<b>Scale Factor</b>	0.999970284		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.45 MILES TO THE MARK ON THE RIGHT AT A ROAD INTERSECTION. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018A" ON TOP OF A 4 FOOT REBAR DRIVEN 0.6 BELOW THE SURFACE OF THE GROUND, SOUTH 36.8 FOOT OF A GRAVEL ROAD, 23.6 FOOT WEST OF A WITNESS POST AND 16.9 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CENTER OF GATE		93.80	307.7	370018
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SHRV	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370019	<b>Date Monumented</b> 4/19/2017	<b>Monumented By</b> AHTD	<b>County</b> LAFAYETTE	<b>Route</b> SR-160	<b>Job Number:</b> 030455
--------------------------	-------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	447,152.7180	0.0020			
<b>Easting (M)</b>	251,229.3130	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,467,033.5423				
<b>Easting (SFT)</b>	824,241.5044				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	53	30.4523932
<b>Scale Factor</b>	1.000055667		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	347	4.88	16.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370020	<b>Date Monumented</b> 9/10/2020	<b>Monumented By</b> ARDOT	<b>County</b> LAYAYETTE	<b>Route</b> CR 22	<b>Job Number:</b> BR3715
--------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	477,132.6113	0.0030			
<b>Easting (M)</b>	253,256.0164	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,565,392.5756				
<b>Easting (SFT)</b>	830,890.7805				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	52	56.6864219
<b>Scale Factor</b>	0.999988901		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 313S AND STATE HIGHWAY 29, SOUTH OF LEWISVILLE, GO NORTH ON HIGHWAY 29 122.7' TO THE MARK ON THE RIGHT, EAST 27' OF THE C/L OF HIGHWAY 29 AND NORTH 122.7' OF THE C/L OF HIGHWAY 313 AND SOUTH 88.3' OF THE SOUTH END OF A BRIDGE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 370020" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARDQ</p> <p>Ref Mon # 3    ARHP, TXMA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 370020A	<b>Date Monumented</b> 9/10/2020	<b>Monumented By</b> ARDOT	<b>County</b> LAYAYETTE	<b>Route</b> CR 22	<b>Job Number:</b> BR3715
---------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	476,824.4844	0.0030			
<b>Easting (M)</b>	253,475.7285	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,564,381.6626				
<b>Easting (SFT)</b>	831,611.6193				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	52	51.8283231
<b>Scale Factor</b>	0.999989469		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE W/GUY	275	24.17	79.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARDQ	
Ref Mon # 3    ARHP, TXMA	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33   20   56.9731524
<b>Longitude</b>	93   34   27.1093476
<b>Ellipsoid Height (M):</b>	54.132   0.0110
<b>Geoid Height (M):</b>	-26.711   0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 313S AND STATE HIGHWAY 29, SOUTH OF LEWISVILLE, GO SOUTH ON HIGHWAY 313S 0.2. MILES' TO THE MARK ON THE RIGHT, WEST 26.2' OF THE C/L OF HIGHWAY 29 AND SOUTH 20.7' OF THE C/L OF COUNTY ROAD 22. THE MARK IS A STANDARD 2 1/2' CAP STAMPED "2020 370020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380001	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> R00054
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	208,455.6510	
<b>Easting (M)</b>	472,025.7960	
<b>Elevation (M)*</b>	101.142	
<b>Northing (SFT)</b>	683,908.2483	
<b>Easting (SFT)</b>	1,548,637.9657	
<b>Elevation (SFT)*</b>	331.830	

  

<b>Convergence Angle</b>	0	27	57.9038393
<b>Scale Factor</b>	0.999995399		
<b>Elevation Adjust. Factor</b>	0.9999841278		
<b>Combined Adjust. Factor</b>	0.9999795268		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 412 AND HWY. 115 IN IMBODEN, GO WEST ON HWY. 412 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 55.8 FEET NORTH OF THE CENTERLINE OF HWY. 412, 23 FEET EAST OF A PRIVATE DRIVE AND 3.92 FEET SOUTH OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	15	28.55	93.7
<b>MK # 2</b>	NBC IN COMBINATION POLE	295	20.69	67.9
<b>MK # 3</b>	NBC IN POWER POLE	200	38.82	127.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    POCAPORT</p> <p><b>Ref Mon # 2</b>    SEDGWICK NW BASE</p> <p><b>Ref Mon # 3</b>    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>(OLD PN = 92380001)</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380002	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> R00054
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	205,215.3459	
<b>Easting (M)</b>	475,334.5690	
<b>Elevation (M)*</b>	88.663	
<b>Northing (SFT)</b>	673,277.3473	
<b>Easting (SFT)</b>	1,559,493.4985	
<b>Elevation (SFT)*</b>	290.889	

  

<b>Convergence Angle</b>	0	29	14.3389479
<b>Scale Factor</b>	0.999989923		
<b>Elevation Adjust. Factor</b>	0.9999860861		
<b>Combined Adjust. Factor</b>	0.9999760092		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	79	36.34	119.2
<b>MK # 2</b>	NBC IN TOP OF FENCE BRACE POST	171	31.70	104.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> POCAPORT	(OLD PN = 92380002)
<b>Ref Mon # 2</b> SEDGWICK NW BASE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380002A	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> R00054
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	205,678.4960	
<b>Easting (M)</b>	475,345.7750	
<b>Elevation (M)*</b>	96.801	
<b>Northing (SFT)</b>	674,796.8656	
<b>Easting (SFT)</b>	1,559,530.2635	
<b>Elevation (SFT)*</b>	317.588	

  

<b>Convergence Angle</b>	0	29	14.6916430
<b>Scale Factor</b>	0.999990683		
<b>Elevation Adjust. Factor</b>	0.9999848090		
<b>Combined Adjust. Factor</b>	0.9999754921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 1.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 58 FEET LEFT OF THE CENTERLINE OF HWY. 412 AND 2.25 FEET WEST OF A WITNESS POST.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN TOP OF FENCE POST		13	2.47	8.1	
MK # 2	NBC IN TOP OF FENCE POST		157	2.69	8.8	
MK # 3	NBC IN TOP OF FENCE POST		166	7.95	26.1	

  

Area Reference Monuments (used for Processing)		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>(OLD PN = 92380002A)</p> </div>
Ref Mon # 1	POCAPORT	
Ref Mon # 2	SEDGWICK NW BASE	
Ref Mon # 3	NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380003	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> R00054
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 200,402.7050		<b>Latitude</b> 36 8 12.2988840
<b>Easting (M)</b> 475,753.1120		<b>Longitude</b> 91 9 30.0465936
<b>Elevation (M)*</b> 90.662		<b>Ellipsoid Height (M):</b> 61.830
		<b>Geoid Height (M):</b> -28.829

  

<b>Northing (SFT)</b> 657,487.8747		<b>Location Description</b>
<b>Easting (SFT)</b> 1,560,866.6683		<p>FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 4.80 MILES TO THE STATION ON RIGHT. THE STATION IS 58 FEET RIGHT OF THE CENTERLINE OF HWY. 412, 476 FEET SOUTHWEST OF THE CONCRETE BRIDGE END, 32 FEET SOUTH OF A PRIVATE DRIVE AND 2.30 FEET EAST OF A WITNESS POST.</p>
<b>Elevation (SFT)*</b> 297.447		
<b>Convergence Angle</b> 0 29 23.1272452		
<b>Scale Factor</b> 0.999982337		
<b>Elevation Adjust. Factor</b> 0.9999857724		
<b>Combined Adjust. Factor</b> 0.9999681096		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	131	12.37	40.6
<b>MK # 2</b>	NBC IN POWER POLE	127	42.23	138.5
<b>MK # 3</b>	NBC IN POWER POLE	53	48.42	158.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> POCAPORT	(OLD PN = 92380003)
<b>Ref Mon # 2</b> SEDGWICK NW BASE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380003A	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> R00054
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,795.1720	
<b>Easting (M)</b>	475,792.2720	
<b>Elevation (M)*</b>	96.734	
<b>Northing (SFT)</b>	658,775.4935	
<b>Easting (SFT)</b>	1,560,995.1457	
<b>Elevation (SFT)*</b>	317.368	

  

<b>Convergence Angle</b>	0	29	24.1167581
<b>Scale Factor</b>	0.999982933		
<b>Elevation Adjust. Factor</b>	0.9999848195		
<b>Combined Adjust. Factor</b>	0.9999677528		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	358	53.59	175.8
MK # 2	NBC IN COMBINATION POLE	177	18.31	60.1
MK # 3	NBC IN COMBINATION POLE	136	36.13	118.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 POCAPORT	(OLD PN = 92380003A)
Ref Mon # 2 SEDGWICK NW BASE	
Ref Mon # 3 NONE	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 8 25.0208448
<b>Longitude</b>	91 9 28.3461048
<b>Ellipsoid Height (M):</b>	67.905
<b>Geoid Height (M):</b>	-28.834

Location Description
<p>FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST 4.55 MILES ON HWY. 412 TO THE STATION ON THE LEFT. THE STATION IS 59 FEET LEFT OF THE CENTERLINE OF HWY. 412, 85 FEET SOUTHEAST OF A CONCRETE CROSSDRAIN HEADWALL AND 2.0 FEET WEST OF A WITNESS POST.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380004	<b>Date Monumented</b> 3/27/1992	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 100686, 100646, 100981
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	197,238.2980	
<b>Easting (M)</b>	479,327.6700	
<b>Elevation (M)*</b>	105.372	
<b>Northing (SFT)</b>	647,105.9827	
<b>Easting (SFT)</b>	1,572,594.1973	
<b>Elevation (SFT)*</b>	345.709	

  

<b>Convergence Angle</b>	0	30	45.6604846
<b>Scale Factor</b>	0.999977620		
<b>Elevation Adjust. Factor</b>	0.9999834639		
<b>Combined Adjust. Factor</b>	0.9999610843		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	107	19.80	65.0
<b>MK # 2</b>	NBC IN 14" CEDAR	243	25.92	85.0
<b>MK # 3</b>	NBC IN 18" ELM	238	33.57	110.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT, ARPG	DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315
<b>Ref Mon # 2</b> B 316, 380008	
<b>Ref Mon # 3</b> O 2,	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 6 28.6209900
<b>Longitude</b>	91 7 8.2123212
<b>Ellipsoid Height (M):</b>	77.338
<b>Geoid Height (M):</b>	-28.034

  

Location Description
FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 7.14 MILES TO THE STATION ON THE RIGHT. THE STATION IS 2.0 FEET NORTH OF A WITNESS POST IN THE LAWN OF THE "NEW LIFE FULL GOSPEL CHURCH" OVERLOOKING HWY. 412.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380005	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> CR 730	<b>Job Number:</b> RX0017,001784
--------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	176,535.4500	
<b>Easting (M)</b>	490,602.3780	
<b>Elevation (M)*</b>	78.450	
<b>Northing (SFT)</b>	579,183.3889	
<b>Easting (SFT)</b>	1,609,584.6352	
<b>Elevation (SFT)*</b>	257.381	

  

<b>Convergence Angle</b>	0	35	3.0530394
<b>Scale Factor</b>	0.999953096		
<b>Elevation Adjust. Factor</b>	0.9999876888		
<b>Combined Adjust. Factor</b>	0.9999407854		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN T-15-N R-1-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 21. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE NORTH ON CO. RD. NO. 191 CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T" JCT., GO LEFT (WEST) AT THE "T" JCT. FOR 0.32 KM (0.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.460 METERS SOUTH OF THE GRAVEL ROAD, 130.74 METERS EAST OF A GRAVEL ROAD GOING NORTH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "380005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CPS IN POWER POLE	277	62.81	206.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380005A	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> CR 730	<b>Job Number:</b> RX0017,001784
---------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	176,552.5280	
<b>Easting (M)</b>	490,083.7370	
<b>Elevation (M)*</b>	77.946	
<b>Northing (SFT)</b>	579,239.4189	
<b>Easting (SFT)</b>	1,607,883.0605	
<b>Elevation (SFT)*</b>	255.728	

  

<b>Convergence Angle</b>	0	34	51.0192449
<b>Scale Factor</b>	0.999953117		
<b>Elevation Adjust. Factor</b>	0.9999877679		
<b>Combined Adjust. Factor</b>	0.9999408855		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN T-15-N R-1-E IN THE NE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE STRAIGHT AHEAD (NORTH) ON CO. RD. NO. 191 CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T" JCT., GO LEFT AT THE "T" JCT. FOR 0.45 KM (0.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.45 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.25 METERS BELOW THE GROUND SURFACE.</p>				

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	251	32.23	105.7		
MK # 2	NBC IN 3" TREE	309	17.60	57.8		
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="SEDGWICK"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="NEWSPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="WALDENBURG"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380006A	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> CR 716	<b>Job Number:</b> RX0017,001784
---------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 180,728.7779		<b>Latitude</b> 35 57 28.8202788
<b>Easting (M)</b> 492,593.5530		<b>Longitude</b> 90 58 24.7146096
<b>Elevation (M)*</b> 78.783		<b>Ellipsoid Height (M):</b>
<b>Northing (SFT)</b> 592,940.9988		<b>Geoid Height (M):</b> -28.663
<b>Easting (SFT)</b> 1,616,117.3485		
<b>Elevation (SFT)*</b> 258.474		

  

<b>Convergence Angle</b> 0 35 50.2833465	<b>Location Description</b>
<b>Scale Factor</b> 0.999957154	<p>THE STATION IS LOCATED FOUND IN T-15-N R-1-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 3.FROM THE JCT. OF HWY. 67 AND MAGNOLIA STREET IN THE TOWN OF MINTURN GO EAST ON MAGNOLIA STREET (ALSO KNOWN AS "OLD MINTURN ROAD") FOR 5.36 KM (3.33 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.06 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD, 192.33 METERS WEST OF A DRIVEWAY TO A ROCK HOUSE OWNED BY MR. RICHARD TINKER AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>
<b>Elevation Adjust. Factor</b> 0.9999876365	
<b>Combined Adjust. Factor</b> 0.9999447911	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN POWER POLE	35	17.53	57.5	380006
MK # 2	NONE				291 45 26.52163
MK # 3	NONE				291 09 36.19206

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380007	<b>Date Monumented</b> 11/4/1993	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> CR 701	<b>Job Number:</b> RX0017,001784
--------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	187,553.5869	
<b>Easting (M)</b>	493,040.3000	
<b>Elevation (M)*</b>	80.021	
<b>Northing (SFT)</b>	615,332.0597	
<b>Easting (SFT)</b>	1,617,583.0509	
<b>Elevation (SFT)*</b>	262.536	

  

<b>Convergence Angle</b>	0	36	2.3187520
<b>Scale Factor</b>	0.999964714		
<b>Elevation Adjust. Factor</b>	0.9999874423		
<b>Combined Adjust. Factor</b>	0.9999521567		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	169	64.31	211.0
<b>MK # 2</b>	NBC IN POWER POLE	350	63.93	209.7
<b>MK # 3</b>	NBC IN POWER POLE	345	11.96	39.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEDGWICK	
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> WALDENBURG	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 1 10.0926804
<b>Longitude</b>	90 58 4.0316340
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-28.732

Location Description
<p>THE STATION IS LOCATED IN T-16-N R-1-E IN THE SE 1/4 OF THE SW 1/4 OF SECTION 15. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.48 KM (0.30 MILES) TO FOURTH STREET ON THE RIGHT, GO RIGHT ON FOURTH STREET FOR 0.40 KM (0.25 MILES) TO A " T " INTERSECTION WITH PECAN STREET, GO LEFT (SOUTHEAST) ON PECAN STREET WHICH IS THE MAIN TRAVELED ROAD FOR 3.26 KM (2.03 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 7.76 METERS WEST OF THE CENTER OF THE GRAVEL ROAD, 11.96 METERS SOUTH OF THE CENTER OF A PIPE CULVERT CARRYING "WHITE OAK SLOUGH" UNDER THE ROAD, 53.05 METERS SOUTHWEST OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "380007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380008	<b>Date Monumented</b> 6/17/2007	<b>Monumented By</b> ahtd	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 100646, 100686
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,140.8220	
<b>Easting (M)</b>	487,945.5280	
<b>Elevation (M)*</b>	78.295	
<b>Northing (SFT)</b>	633,662.8468	
<b>Easting (SFT)</b>	1,600,867.9531	
<b>Elevation (SFT)*</b>	256.873	

  

<b>Convergence Angle</b>	0	34	5.2083155
<b>Scale Factor</b>	0.999971835		
<b>Elevation Adjust. Factor</b>	0.9999877131		
<b>Combined Adjust. Factor</b>	0.9999595484		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 412 and 63 on the west side of Walnut Ridge go east on hwy-63 for 1.0 miles to the station on the right near the west driveway to Hears country market. 73.0 feet east of the center of a gravel drive, 56.5 feet south of the center of hwy-63 and 8.50 feet north of a witness post set by a split-rail fence. The station mark is a 2 1/2 inch cap stamped "380008 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	N/A				<b>AZ Mark Station</b>	B 316
MK # 2					<b>Geodetic Azimuth</b>	110 35 37
MK # 3					<b>Grid Azimuth</b>	110 01 32

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARMH	3-wire levels established to mark by crew S5101 in Sept 07. Levels were based on 1st order NGS marks B 316 & D 316.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380009	<b>Date Monumented</b> 6/30/2009	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> NA	<b>Job Number:</b> 100686, 100646, 100981
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	197,261.2039	
<b>Easting (M)</b>	479,916.6870	
<b>Elevation (M)*</b>	91.634	
<b>Northing (SFT)</b>	647,181.1331	
<b>Easting (SFT)</b>	1,574,526.6639	
<b>Elevation (SFT)*</b>	300.637	

  

<b>Convergence Angle</b>	0	30	59.3687891
<b>Scale Factor</b>	0.999977646		
<b>Elevation Adjust. Factor</b>	0.9999856198		
<b>Combined Adjust. Factor</b>	0.9999632661		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 117 AND STATE HIGHWAY 63/412, WEST OF BLACK ROCK, GO NORTH ON 117 FOR 0.2 MILES TO THE MARK ON THE LEFT, 33 FEET EAST OF THE C/L OF THE CONCRETE DRIVE TO THE BLACK ROCK POST OFFICE AND NORTH 21.5 FEET OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "380009 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	85	10.52	34.5
MK # 2	COMBINATION POLE W/TRANSFORMER	199	19.81	65.0
MK # 3	SE CORNER BLKROC POST OFFICE	312	37.64	123.5

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARBT, ARPG	DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315 Cap stamped 9238004
Ref Mon # 2	B 316, 380008	
Ref Mon # 3	O 2,	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380010	<b>Date Monumented</b> 6/30/2009	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 504	<b>Job Number:</b> 100686
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	194,340.5499	
<b>Easting (M)</b>	484,286.1090	
<b>Elevation (M)*</b>	79.422	
<b>Northing (SFT)</b>	637,598.9541	
<b>Easting (SFT)</b>	1,588,862.0093	
<b>Elevation (SFT)*</b>	260.571	

  

<b>Convergence Angle</b>	0	32	40.3774632
<b>Scale Factor</b>	0.999973500		
<b>Elevation Adjust. Factor</b>	0.9999875362		
<b>Combined Adjust. Factor</b>	0.9999610366		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63/412 AND THE C/L OF THE BLACK RIVER, IN BLACK ROCK, GO SOUTH ON 412/63 2.2 MILES TO A CROSS ROAD AND TURN RIGHT ON COUNTY ROAD 504 AND GO 0.25 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE ROAD 18.3 FEET AND SOUTH 22.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "380010 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" CONCRETE CULVERT	6	10.21	33.5
MK # 2	NE CORNER BRICK HOUSE #206	265	11.58	38.0
MK # 3	LIGHT POLE	190	25.30	83.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBT, ARPG</p> <p><b>Ref Mon # 2</b>    B 316, 380008</p> <p><b>Ref Mon # 3</b>    O 2,</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING O 2 AND E 316</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380011	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	211,056.6369		
<b>Easting (M)</b>	467,856.7157		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	692,441.6496		
<b>Easting (SFT)</b>	1,534,959.9081		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	26	21.2498911
<b>Scale Factor</b>	1.000000005		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Nearest rail	320	11.89	39.0	
MK # 2	power pole	220	6.71	22.0	
MK # 3	fence	150	3.20	10.5	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	36 14 0.0174948
<b>Longitude</b>	91 14 42.6048108
<b>Ellipsoid Height (M):</b>	64.045
<b>Geoid Height (M):</b>	-28.303

Location Description
Starting at the junction of highway 63 and 90 go east 0.55 miles to the farm road on the right and then go 0.15 down it to the station on the left. The station is a standard alum. cap (stamped 380011 2011) and is on a 4 foot 5/8" rebar. And as described as above. Lat.36.1400 Lon.091.1443

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380011A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 210,798.8632		<b>Geoid Datum:</b> Geoid09
<b>Easting (M)</b> 467,460.8165		<b>Latitude</b> 36 13 51.7529208
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 14 58.5370752
<b>Northing (SFT)</b> 691,595.9370		<b>Ellipsoid Height (M):</b> 63.668
<b>Easting (SFT)</b> 1,533,661.0288		<b>Geoid Height (M):</b> -28.302
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 26 11.9789204	<b>Location Description</b> Starting at the junction of highway 63 and 90 go south on 90 0.425 miles to a railroad crossing. The station is on the left and is a standard alum. cap (stamped 380011A 2011) and is on a 4 foot 5/8" rebar. And as described above. Lat.36.1352 Lon.091.1458
<b>Scale Factor</b> 0.999999552	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b> 			
<b>Latitude</b> 			
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	nearest rail	140	4.27	14.0
<b>MK # 2</b>	CL paved road	50	19.80	65.0
<b>MK # 3</b>	a Small sign next to rail that reads Shunt	210	11.28	37.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380012	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 781, Mobile LiDAR-CLS, 100
--------------------------	------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	193,621.4004    0.0020
<b>Easting (M)</b>	496,194.5504    0.0020
<b>Elevation (M)*</b>	88.768

  

<b>Northing (SFT)</b>	635,239.5445	
<b>Easting (SFT)</b>	1,627,931.6208	
<b>Elevation (SFT)*</b>	291.233	

  

<b>Convergence Angle</b>	0	37	17.1494313
<b>Scale Factor</b>	0.999972363		
<b>Elevation Adjust. Factor</b>	0.9999860696		
<b>Combined Adjust. Factor</b>	0.9999584330		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	36    4    25.8618396
<b>Longitude</b>	90    55    55.4343744
<b>Ellipsoid Height:</b>	60.691
<b>Grid Northing (Meters)</b>	193,621.4130
<b>Grid Easting (Meters)</b>	496,194.5482

  

**Location Description**

Starting at the intersection of highway 412 and 67 go north on 67 for 0.3 miles to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. It is 24 foot west of the CL of highway 67 north off ramp. LAT: 36 04 26 LONG: 90 55 55

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	S.E. of a cross drain		15.85	52.0
<b>MK # 2</b>	west of N.W. corner of a bridge		3.05	10.0
<b>MK # 3</b>	yellow stripe		4.89	16.0

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARJB</p> <p><b>Ref Mon # 2</b>    ARPG</p> <p><b>Ref Mon # 3</b>    MODP, MOKE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>SUPERCEDED GEOID HT. WAS -28.05697m            STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT.            CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON            ARDOT CORS SITES ARJB &amp; ARPG</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380012A	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 781, Mobile LiDAR-CLS, 100
---------------------------	----------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	193,081.6641	0.0010	
<b>Easting (M)</b>	496,180.7259	0.0020	
<b>Elevation (M)*</b>	88.115		

  

<b>Northing (SFT)</b>	633,468.7596		
<b>Easting (SFT)</b>	1,627,886.2649		
<b>Elevation (SFT)*</b>	289.092		

  

<b>Convergence Angle</b>	0	37	16.6918372
<b>Scale Factor</b>	0.999971643		
<b>Elevation Adjust. Factor</b>	0.9999861720		
<b>Combined Adjust. Factor</b>	0.9999578154		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	4	8.3555688
<b>Longitude</b>	90	55	56.2206324
<b>Ellipsoid Height:</b>	60.049		
<b>Grid Northing (Meters)</b>	193,081.6627		
<b>Grid Easting (Meters)</b>	496,180.7270		

**Location Description**

Starting at the G. & L. County line go west for 6.1 miles on highways 412 to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. LAT:36 04 09 LONG: 90 55 56

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of CL highway 412		12.80	42.0
MK # 2	South of S.E. corner of bridge		1.50	4.9
MK # 3				

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARJB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    MODP, MOKE</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>SUPERCEDED GEOID HT. WAS -28.05135m            STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT.            CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON            ARDOT CORS SITES ARJB &amp; ARPG</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380013A	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
---------------------------	------------------------	----------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b>
<b>Northing (M)</b> 193,330.2451		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 503,454.1939		<b>Latitude</b> 36 4 13.7645724
<b>Elevation (M)*</b> 78.227		<b>Longitude</b> 90 51 5.4523980
<b>Northing (SFT)</b> 634,284.3125		<b>Ellipsoid Height (M):</b> 50.179
<b>Easting (SFT)</b> 1,651,749.3012		<b>Geoid Height (M):</b> -28.058
<b>Elevation (SFT)*</b> 256.650		

  

<b>Convergence Angle</b> 0 40 5.8896444	<b>Scale Factor</b> 0.999971865	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999877238	<b>Combined Adjust. Factor</b> 0.9999595891	From the Lawrence Co. line on hwy.412, go west for 1.5miles to the station on the right, standard alum cap stamped 380013A 2012, with 4.ft rebar. 2 ft. south of witness post. LAT:36 04 14 LONG:90 51 05
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	East of cl of dw		6.40	21.0	
MK # 2	North of cl of 412		22.86	75.0	
MK # 3	NE of center of HW	243	25.91	85.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b> pp w/guy-298AZ
---	-----------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380014	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
--------------------------	----------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 193,368.1655		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 508,333.0471		<b>Latitude</b> 36 4 13.1049624
<b>Elevation (M)*</b> 79.228		<b>Longitude</b> 90 47 50.4694392
<b>Northing (SFT)</b> 634,408.7230		<b>Ellipsoid Height (M):</b> 51.166
<b>Easting (SFT)</b> 1,667,756.0054		<b>Geoid Height (M):</b> -28.077
<b>Elevation (SFT)*</b> 259.934		

  

<b>Convergence Angle</b>	0	41	59.3500581
<b>Scale Factor</b>	0.999971837		
<b>Elevation Adjust. Factor</b>	0.9999875667		
<b>Combined Adjust. Factor</b>	0.9999594040		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL of 412	0	17.48	57.3
<b>MK # 2</b>	CMP	243	14.32	47.0
<b>MK # 3</b>	Co.Rd	270	17.37	57.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380014A	<b>Date Monumented</b> 	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412	<b>Job Number:</b> 100781,Mobie LiDAR-CLS
---------------------------	----------------------------	------------------------------	---------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 193,333.9368		<b>Geoid Datum:</b> Geoid12A
<b>Easting (M)</b> 508,903.2799		<b>Latitude</b> 36 4 11.7679332
<b>Elevation (M)*</b> 79.898		<b>Longitude</b> 90 47 27.6991656
<b>Northing (SFT)</b> 634,296.4243		<b>Ellipsoid Height (M):</b> 51.835
<b>Easting (SFT)</b> 1,669,626.8441		<b>Geoid Height (M):</b> -28.080
<b>Elevation (SFT)*</b> 262.132		

  

<b>Convergence Angle</b> 0 42 12.6000605	<b>Scale Factor</b> 0.999971783	<b>Location Description</b> Starting from the Lawrence Co. line on hwy 412, go east for 1.7miles to the station on the right. Station is a standard alum. cap stamped 380014A, 2012. with a 4ft rebar. LAT: 36 04 12 LONG: 90 47 27
<b>Elevation Adjust. Factor</b> 0.9999874616	<b>Combined Adjust. Factor</b> 0.9999592449	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	West of DW	72	4.57	15.0	
MK # 2	South of CL412	340	13.11	43.0	
MK # 3	East of WP		0.61	2.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380015	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	192,142.1040	0.0020
<b>Easting (M)</b>	477,305.5540	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	630,386.2195	
<b>Easting (SFT)</b>	1,565,959.9717	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	57.5824662
<b>Scale Factor</b>	0.999970646		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF LAKE CHARLES MONUMENT	301	31.88	104.6
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> ARJB	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12B

**Latitude**    36    3    43.8618636

**Longitude**    91    8    30.8349204

**Ellipsoid Height (M):**    59.192    0.0090

**Geoid Height (M):**    -28.130    0.0090

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND 117s, IN POWHATAN, GO SOUTH ON HIGHWAY 25 2.7 TO THE MARK ON THE RIGHT, 89' NORTHWEST OF THE C/L OF THE HIGHWAY, 58.6' SOUTHEAST OF THE C/L OF A BOAT RAMP AND NORTHEAST 4.8' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2018 380015" DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380015A	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	192,325.8339	0.0020			
<b>Easting (M)</b>	477,759.9012	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	630,989.0067				
<b>Easting (SFT)</b>	1,567,450.6092				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	30	8.1842910
<b>Scale Factor</b>	0.999970882		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND 117s, IN POWHATAN, GO SOUTH ON HIGHWAY 25 2.35 TO THE MARK ON THE RIGHT, 38.4' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2018 380015A" DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPG</p> <p>Ref Mon # 2    ARWY</p> <p>Ref Mon # 3    ARJB</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380016	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	189,882.6730	0.0020
<b>Easting (M)</b>	470,898.4359	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	622,973.4030	
<b>Easting (SFT)</b>	1,544,939.2851	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	27	28.1848685
<b>Scale Factor</b>	0.999967816		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N COR OF BRIDGE	222	13.41	44.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 2 32.2932336
<b>Longitude</b>	91 12 47.5763220
<b>Ellipsoid Height (M):</b>	59.624 0.0100
<b>Geoid Height (M):</b>	-28.153 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 8.1 MILES TO THE STATION ON THE LEFT. 18' NW OF THE C/L OF SR-25, 31' SW OF CR-263. THE MARK IS A STANDARD 2½" CAP STAMPED "380016 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380016A	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	189,544.7214	0.0020			
<b>Easting (M)</b>	470,524.8225	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	621,864.6401				
<b>Easting (SFT)</b>	1,543,713.5218				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	27	19.4373555
<b>Scale Factor</b>	0.999967397		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	224	27.13	89.0
<b>MK # 2</b>	BRACE IN FENCE	70	13.11	43.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 2 21.4252620
<b>Longitude</b>	91 13 2.6090184
<b>Ellipsoid Height (M):</b>	67.392 0.0090
<b>Geoid Height (M):</b>	-28.152 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 7.8 MILES TO THE STATION ON THE RIGHT. 25' SE OF THE C/L OF SR-25, 14' N OF FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "380016A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380017	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 185,142.1884	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 466,719.0214	<b>0.0020</b>	<b>Latitude</b> 35 59 59.5420800
<b>Elevation (M)*</b>		<b>Longitude</b> 91 15 35.9625888
<b>Northing (SFT)</b> 607,420.6631		<b>Ellipsoid Height (M):</b> 70.191 0.0080
<b>Easting (SFT)</b> 1,531,227.3227		<b>Geoid Height (M):</b> -28.124 0.0080
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	<b>0</b>	<b>25</b>	<b>50.2010466</b>
<b>Scale Factor</b>	<b>0.999962179</b>		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PP WITH TRANSFORMER	200	17.07	56.0
<b>MK # 2</b>	LP & TB	176	25.91	85.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

<b>AZ Mark Station</b>	380017A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380017A	<b>Date Monumented</b> 10/22/2018	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 25	<b>Job Number:</b> 100991
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	184,756.2474	0.0020			
<b>Easting (M)</b>	466,412.2852	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	606,154.4550				
<b>Easting (SFT)</b>	1,530,220.9724				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	25	43.0072889
<b>Scale Factor</b>	0.999961743		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FE CORNER	44	23.16	76.0
MK # 2	GP	211	37.19	122.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380018	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
--------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 173,501.3941	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 484,449.6298	<b>0.0020</b>	<b>Latitude</b> 35 53 36.9623508
<b>Elevation (M)*</b>		<b>Longitude</b> 91 3 52.4473596
<b>Northing (SFT)</b> 569,229.1571		<b>Ellipsoid Height (M):</b> 49.796 0.0080
<b>Easting (SFT)</b> 1,589,398.4938		<b>Geoid Height (M):</b> -27.909 0.0080
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 32 39.5759451	<b>Scale Factor</b> 0.999950468
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 21' SOUTH OF THE C/L OF THE HIGHWAY AND 18.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	207	5.94	19.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARJB	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG, MOAT, MODP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380018A	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
---------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	173,488.3526	0.0020	
<b>Easting (M)</b>	484,873.0284	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	569,186.3702		
<b>Easting (SFT)</b>	1,590,787.5940		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	49.3970347
<b>Scale Factor</b>	0.999950453		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE RIGHT, 16.7' SOUTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARPG, MOAT, MODP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380019	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
--------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	174,075.5842	0.0020			
<b>Easting (M)</b>	492,872.3692	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	571,112.9792				
<b>Easting (SFT)</b>	1,617,032.0980				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	35	55.1434875
<b>Scale Factor</b>	0.999950886		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SILO	103	39.93	131.0
MK # 2	PP W/METER LOOP & TRANSFORMER			
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARJB	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG, MOAT, MODP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 53 52.8660924
<b>Longitude</b>	90 58 16.3624044
<b>Ellipsoid Height (M):</b>	49.938 0.0070
<b>Geoid Height (M):</b>	-27.872 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE LEFT, 22' SOUTH OF THE C/L OF THE HIGHWAY AND 22' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380019A	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
---------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	174,076.5368	0.0020	
<b>Easting (M)</b>	493,296.6851	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	571,116.1045		
<b>Easting (SFT)</b>	1,618,424.2077		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	36	4.9894323
<b>Scale Factor</b>	0.999950883		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST OF NORTH END CMP	279	27.43	90.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARJB	
Ref Mon # 2    ARBT	
Ref Mon # 3    ARPG, MOAT, MODP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35   53   52.7528256
<b>Longitude</b>	90   57   59.4420408
<b>Ellipsoid Height (M):</b>	49.059   0.0070
<b>Geoid Height (M):</b>	-27.871   0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 17.7' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380020	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
--------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	175,578.8635	0.0020	
<b>Easting (M)</b>	499,275.5925	0.0020	
<b>Elevation (M)*</b>	76.006		
<b>Northing (SFT)</b>	576,044.9880		
<b>Easting (SFT)</b>	1,638,040.0064		
<b>Elevation (SFT)*</b>	249.364		

  

<b>Convergence Angle</b>	0	38	24.1107575
<b>Scale Factor</b>	0.999952144		
<b>Elevation Adjust. Factor</b>	0.9999880723		
<b>Combined Adjust. Factor</b>	0.9999402168		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	41	11.83	38.8
MK # 2	NORTH END CMP	90	23.77	78.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARBT Ref Mon # 3    ARPG, MOAT, MODP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 &amp; D 3</td> </tr> </table>	Comments	ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3
Comments			
ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3			

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12B

**Latitude**    35    54    39.3936408

**Longitude**    90    54    0.3605256

**Ellipsoid Height (M):**    48.104    0.0080

**Geoid Height (M):**    -27.868    0.0080

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO WEST ON HIGHWAY 230 0.5 MILES TO THE MARK ON THE RIGHT, 22' NORTH OF THE C/L OF THE HIGHWAY AND 12.4' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380020A	<b>Date Monumented</b> 4/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> LAWRENCE	<b>Route</b> 230	<b>Job Number:</b> 101054
---------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	175,562.2802    0.0020
<b>Easting (M)</b>	499,714.8865    0.0020
<b>Elevation (M)*</b>	75.951

  

<b>Northing (SFT)</b>	575,990.5810	
<b>Easting (SFT)</b>	1,639,481.2568	
<b>Elevation (SFT)*</b>	249.183	

  

<b>Convergence Angle</b>	0	38	34.3012632
<b>Scale Factor</b>	0.999952125		
<b>Elevation Adjust. Factor</b>	0.9999880809		
<b>Combined Adjust. Factor</b>	0.9999402065		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO EAST ON HIGHWAY 230 0.2 MILES TO THE MARK ON THE LEFT, 18.6' NORTH OF THE C/L OF THE HIGHWAY AND 19' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020A" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 POWER POLE W/GUY	52	15.36	50.4	<b>AZ Mark Station</b> 380020
MK # 2				<b>Geodetic Azimuth</b>
MK # 3				<b>Grid Azimuth</b>

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARBT</p> <p>Ref Mon # 3 ARPG, MOAT, MODP</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 &amp; D 3</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380021	<b>Date Monumented</b> 11/2/2020	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	196,665.8759	0.0020	
<b>Easting (M)</b>	498,098.7488	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	645,227.9612		
<b>Easting (SFT)</b>	1,634,178.9784		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	2.2142385
<b>Scale Factor</b>	0.999976536		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.41 MILES TO THE STATION ON THE LEFT. THE POINT IS 21.0' NORTH OF THE CL OF STATE HWY 34.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	233	38.89	127.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    MODP, MOKE	<b>Comments</b> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380021A	<b>Date Monumented</b> 11/2/2020	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	196,367.2262	0.0020			
<b>Easting (M)</b>	497,756.1967	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	644,248.1413				
<b>Easting (SFT)</b>	1,633,055.1220				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	54.1689945
<b>Scale Factor</b>	0.999976119		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 5 54.3897600
<b>Longitude</b>	90 54 51.8157720
<b>Ellipsoid Height (M):</b>	53.823 0.0090
<b>Geoid Height (M):</b>	-28.086 0.0090

Location Description
<p>THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.13 MILES TO THE STATION ON THE LEFT. THE POINT IS 54.6' NORTH OF THE CL OF STATE HWY 34 AND 61.6' SOUTH OF A HEADWALL.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380022	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	200,041.2966	0.0020	
<b>Easting (M)</b>	498,149.4813	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	656,302.1539		
<b>Easting (SFT)</b>	1,634,345.4232		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	4.2640154
<b>Scale Factor</b>	0.999981460		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" PIPE CULVERT	275	18.50	60.7
<b>MK # 2</b>	4 BARB FENCE	3	14.23	46.7
<b>MK # 3</b>	POWER POLE	71	38.25	125.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 7 53.4447984
<b>Longitude</b>	90 54 34.4673684
<b>Ellipsoid Height (M):</b>	54.319 0.0080
<b>Geoid Height (M):</b>	-28.129 0.0080

  

Location Description
THE INTERSECTION OF US HWY 67 AND STATE HWY 34 IN WALNUT RIDGE. GO NORTH ON US HWY 67 FOR 4.02 MILES TO LAWRENCE COUNTY ROAD 414 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 414 FOR 2.2 MILES TO LAWRENCE COUNTY ROAD 408 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 408 FOR 0.89 MILES TO THE STATION ON THE RIGHT. THE POINT IS 27.6 SOUTH OF THE CL OF LAWRENCE COUNTY ROAD 408, AND 25' EAST OF A FIELD ENTRANCE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380022A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	200,057.6148	0.0010			
<b>Easting (M)</b>	497,737.9553	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	656,355.6912				
<b>Easting (SFT)</b>	1,632,995.2750				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	54.6914070
<b>Scale Factor</b>	0.999981491		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	290	6.46	21.2
MK # 2	POWER POLE	41	2.62	8.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
390001 RESET	4/15/2002	AHTD	LEE	1	110229

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	48,267.7589	
<b>Easting (M)</b>	512,562.8780	
<b>Elevation (M)*</b>	67.666	
<b>Northing (SFT)</b>	158,358.4723	
<b>Easting (SFT)</b>	1,681,633.3756	
<b>Elevation (SFT)*</b>	222.001	

  

<b>Convergence Angle</b>	0	42	55.5741388
<b>Scale Factor</b>	1.000038084		
<b>Elevation Adjust. Factor</b>	0.9999893811		
<b>Combined Adjust. Factor</b>	1.0000274647		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	150	28.30	92.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEVATION BY 3 WIRE
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390001A	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229, 110217
---------------------------	-------------------------------------	------------------------------	----------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	48,669.4429	
<b>Easting (M)</b>	512,274.1720	
<b>Elevation (M)*</b>	67.749	
<b>Northing (SFT)</b>	159,676.3306	
<b>Easting (SFT)</b>	1,680,686.1793	
<b>Elevation (SFT)*</b>	222.273	

  

<b>Convergence Angle</b>	0	42	49.0833517
<b>Scale Factor</b>	1.000037180		
<b>Elevation Adjust. Factor</b>	0.9999893681		
<b>Combined Adjust. Factor</b>	1.0000265477		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 1, 7.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 0.74 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	318	2.60	8.5
MK # 2	16" METAL CULVERT	31	8.00	26.2
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="H 349"/></p> <p>Ref Mon # 3    <input type="text" value="390006"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> ELEVATION BY 3 WIRE </div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390002	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110217
--------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	621,868.1820	
<b>Easting (M)</b>	512,915.9760	
<b>Elevation (M)*</b>	61.241	
<b>Northing (SFT)</b>	2,040,245.8604	
<b>Easting (SFT)</b>	1,682,791.8313	
<b>Elevation (SFT)*</b>	200.922	

  

<b>Convergence Angle</b>	0	41	22.1669447
<b>Scale Factor</b>	0.999978123		
<b>Elevation Adjust. Factor</b>	0.9999903894		
<b>Combined Adjust. Factor</b>	0.9999685126		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 0.418 KM (0.26 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.9 METERS WEST OF THE CENTERLINE OF HWY. 1 AND 0.45 METERS EAST OF A WITNESS POST AND A TWO INCH IRON PIPE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	10.55	34.6
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    BRINKLEYPORT Ref Mon # 2    GIL Ref Mon # 3    RIDDELL	<b>Comments</b> Cross Reference Job: 110218
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390002A	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110217
---------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	622,446.0320	
<b>Easting (M)</b>	512,949.2070	
<b>Elevation (M)*</b>	61.844	
<b>Northing (SFT)</b>	2,042,141.6900	
<b>Easting (SFT)</b>	1,682,900.8566	
<b>Elevation (SFT)*</b>	202.900	

  

<b>Convergence Angle</b>	0	41	23.0502810
<b>Scale Factor</b>	0.999979119		
<b>Elevation Adjust. Factor</b>	0.9999902948		
<b>Combined Adjust. Factor</b>	0.9999694140		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 1.013 KM (0.63 MILES) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 112 METERS SOUTH OF A FIELD ENTRANCE, 17.3 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="GIL"/></p> <p>Ref Mon # 3 <input type="text" value="RIDDELL"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 110218</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390003	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110387
--------------------------	--------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	50,082.1469	
<b>Easting (M)</b>	487,693.9260	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	164,311.1770	
<b>Easting (SFT)</b>	1,600,042.4889	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	26.9875184
<b>Scale Factor</b>	1.000033463		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905 AND THE STATION ON THE LEFT. THE STATION IS 16.25 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 6.40 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	282	24.10	79.1	390003A
MK # 2					316 47 12
MK # 3					316 13 45

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 540002	
Ref Mon # 3 480005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390003A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> N/A	<b>Job Number:</b> 110387
---------------------------	--------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	50,461.8999	
<b>Easting (M)</b>	487,330.1270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	165,557.0833	
<b>Easting (SFT)</b>	1,598,848.9250	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	18.7462521
<b>Scale Factor</b>	1.000032627		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905, TURN NORTH (LEFT) ON COUNTY ROAD 905 FOR .531 KM (.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	318	12.60	41.3
MK # 2	POWER POLE	6	20.00	65.6
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="540002"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="480005"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390004	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 78	<b>Job Number:</b> R10087
--------------------------	--------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	49,901.7759		
<b>Easting (M)</b>	494,287.8950		
<b>Elevation (M)*</b>	61.887		
<b>Northing (SFT)</b>	163,719.4098		
<b>Easting (SFT)</b>	1,621,676.2022		
<b>Elevation (SFT)*</b>	203.041		

  

<b>Convergence Angle</b>	0	35	57.8451127
<b>Scale Factor</b>	1.000034003		
<b>Elevation Adjust. Factor</b>	0.9999902880		
<b>Combined Adjust. Factor</b>	1.0000242907		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 78 LOCATED ABOUT 17.70 KM (11.00 MI) WEST OF MARIANNA, GO NORTHWEST ON STATE HIGHWAY 78 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 78 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 434.448 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	303	21.30	69.9		MORO
MK # 2						143 48 23
MK # 3						143 12 25

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK P 176, RUN BY CREW S5102.
Ref Mon # 2 540002	
Ref Mon # 3 480005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390005	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110387
--------------------------	--------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	49,642.4229	
<b>Easting (M)</b>	507,799.1090	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	162,868.5158	
<b>Easting (SFT)</b>	1,666,004.2434	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	6.9601679
<b>Scale Factor</b>	1.000034905		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 243 NORTH, LOCATED ON THE WEST SIDE OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 2.607 KM (1.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.08 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.549 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="540002"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="480005"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390005A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110387
---------------------------	--------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	49,624.7539	
<b>Easting (M)</b>	507,279.8500	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	162,810.5468	
<b>Easting (SFT)</b>	1,664,300.6412	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	55.0733471
<b>Scale Factor</b>	1.000034931		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 243 NORTH, LOCATED ON THE WEST SIDE OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 3.122 KM (1.94 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.549 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION LINE POWER POLE	223	29.90	98.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="540002"/></p> <p>Ref Mon # 3 <input type="text" value="480005"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390006	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229, R10088,110217
--------------------------	--------------------------------------	------------------------------	----------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	36,628.6119
<b>Easting (M)</b>	512,974.4960
<b>Elevation (M)*</b>	61.469
<b>Northing (SFT)</b>	120,172.3709
<b>Easting (SFT)</b>	1,682,983.8256
<b>Elevation (SFT)*</b>	201.669

  

<b>Convergence Angle</b>	0	43	1.6583516
<b>Scale Factor</b>	1.000065772		
<b>Elevation Adjust. Factor</b>	0.9999903536		
<b>Combined Adjust. Factor</b>	1.0000561250		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE LEE AND PHILLIPS COUNTY LINE LOCATED ABOUT 14.484 KM " 9 MI" SOUTH OF MARIANNA ON STATE HIGHWAY 1, GO NORTH ON STATE HIGHWAY 1 FOR 1.609KM (1.00MI) TO THE JUNCTION OF STATE HIGHWAY 121 AND THE STATION ON THE RIGHT. THE STATION MARK IS 27.30 METERS EAST OF THE CENTER OF HIGHWAY 1, 12.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 471.071 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK Z 171 RESET, RUN BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	337	23.80	78.1
MK # 2	WEST END CONCRETE HEAD WALL	53	9.85	32.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 MORO TRI	<p>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</p> <p>***** This Monument was reported destroyed on 04/24/2014*****</p> <p>*****</p>
Ref Mon # 2 540002	
Ref Mon # 3 540006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390006A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229, R10088
---------------------------	--------------------------------------	------------------------------	----------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	36,157.7619	
<b>Easting (M)</b>	512,959.3570	
<b>Elevation (M)*</b>	61.263	
<b>Northing (SFT)</b>	118,627.5905	
<b>Easting (SFT)</b>	1,682,934.1571	
<b>Elevation (SFT)*</b>	200.994	

  

<b>Convergence Angle</b>	0	43	1.1777960
<b>Scale Factor</b>	1.000066961		
<b>Elevation Adjust. Factor</b>	0.9999903859		
<b>Combined Adjust. Factor</b>	1.0000573463		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE LEE AND PHILLIPS COUNTY LINE LOCATED ABOUT 14.484 KM " 9 MI" SOUTH OF MARIANNA ON STATE HIGHWAY 1, GO NORTH ON STATE HIGHWAY 1 FOR 1.143 KM (0.71MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS EAST OF THE CENTER OF HIGHWAY 1, 6.35 METERS NORTH OF A FIELD ENTRANCE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390006A 2000" SET ON TOP AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 471.071 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK Z 171 RESET, RUN BY CREW S5102.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	150	18.65	61.2
MK # 2	SOUTH END CORRIGATED METAL PIPE	160	12.75	41.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="MORO TRI"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="540002"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="540006"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> ELEVATION BY 3 WIRE </div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390007	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 121	<b>Job Number:</b> R10088
--------------------------	--------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	39,296.3389				
<b>Easting (M)</b>	501,550.1710				
<b>Elevation (M)*</b>	59.404				
<b>Northing (SFT)</b>	128,924.7385				
<b>Easting (SFT)</b>	1,645,502.5194				
<b>Elevation (SFT)*</b>	194.895				

  

<b>Convergence Angle</b>	0	38	41.3025117
<b>Scale Factor</b>	1.000058804		
<b>Elevation Adjust. Factor</b>	0.9999906777		
<b>Combined Adjust. Factor</b>	1.0000494811		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.046 KM (0.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172 RUN BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	177	34.00	111.5
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	390007A
<b>Geodetic Azimuth</b>	342 05 13
<b>Grid Azimuth</b>	341 26 31

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	MORO TRI
Ref Mon # 2	540002
Ref Mon # 3	540006

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390007A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 121	<b>Job Number:</b> R10088
---------------------------	--------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	39,768.9099	
<b>Easting (M)</b>	501,391.5190	
<b>Elevation (M)*</b>	58.161	
<b>Northing (SFT)</b>	130,475.1652	
<b>Easting (SFT)</b>	1,644,982.0086	
<b>Elevation (SFT)*</b>	190.817	

  

<b>Convergence Angle</b>	0	38	37.7976234
<b>Scale Factor</b>	1.000057644		
<b>Elevation Adjust. Factor</b>	0.9999908727		
<b>Combined Adjust. Factor</b>	1.0000485162		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH, LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172, RUN BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	203	4.30	14.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MORO TRI</p> <p>Ref Mon # 2: 540002</p> <p>Ref Mon # 3: 540006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390008	<b>Date Monumented</b> 4/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229
--------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	42,262.4869				
<b>Easting (M)</b>	512,943.6610				
<b>Elevation (M)*</b>	70.527				
<b>Northing (SFT)</b>	138,656.1758				
<b>Easting (SFT)</b>	1,682,882.6611				
<b>Elevation (SFT)*</b>	231.387				

  

<b>Convergence Angle</b>	0	43	2.5656589
<b>Scale Factor</b>	1.000051962		
<b>Elevation Adjust. Factor</b>	0.9999889321		
<b>Combined Adjust. Factor</b>	1.0000408936		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 243, LOCATED ABOUT 4.0 MILES SOUTH OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.55 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				JONES TRI STATION	
MK # 2					Geodetic Azimuth	356 58 23
MK # 3					Grid Azimuth	356 15 21

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390009	<b>Date Monumented</b> 4/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229
--------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	53,945.0720				
<b>Easting (M)</b>	510,000.9250				
<b>Elevation (M)*</b>	65.062				
<b>Northing (SFT)</b>	176,984.7904				
<b>Easting (SFT)</b>	1,673,228.0348				
<b>Elevation (SFT)*</b>	213.458				

  

<b>Convergence Angle</b>	0	41	58.5455402
<b>Scale Factor</b>	1.000025717		
<b>Elevation Adjust. Factor</b>	0.9999897898		
<b>Combined Adjust. Factor</b>	1.0000155065		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 0.30 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.30 METERS SOUTH OF THE CENTER OF A DRIVE, 14.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END REINFORCED CONCRETE PIPE	9	25.35	83.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    H 349</p> <p>Ref Mon # 3    390006</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390009A	<b>Date Monumented</b> 4/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 121	<b>Job Number:</b> 110229
---------------------------	-------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	53,411.5019	
<b>Easting (M)</b>	509,922.5240	
<b>Elevation (M)*</b>	65.954	
<b>Northing (SFT)</b>	175,234.2358	
<b>Easting (SFT)</b>	1,672,970.8142	
<b>Elevation (SFT)*</b>	216.384	

  

<b>Convergence Angle</b>	0	41	56.6016301
<b>Scale Factor</b>	1.000026837		
<b>Elevation Adjust. Factor</b>	0.9999896498		
<b>Combined Adjust. Factor</b>	1.0000164865		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	262	10.80	35.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 48 31.3929216
<b>Longitude</b>	90 47 55.1926428
<b>Ellipsoid Height (M):</b>	39.241
<b>Geoid Height (M):</b>	-26.689

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO WEST ON STATE HIGHWAY 121 FOR 0.07 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.80 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390009A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390010	<b>Date Monumented</b> 4/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229
--------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 59,467.0940		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 510,387.1150		<b>Latitude</b> 34 51 47.6978832
<b>Elevation (M)*</b> 67.313		<b>Longitude</b> 90 47 33.9945612
<b>Northing (SFT)</b> 195,101.6242		<b>Ellipsoid Height (M):</b> 40.562
<b>Easting (SFT)</b> 1,674,495.0598		<b>Geoid Height (M):</b> -26.714
<b>Elevation (SFT)*</b> 220.843		

  

<b>Convergence Angle</b> 0 42 8.9367753	<b>Location Description</b>
<b>Scale Factor</b> 1.000014521	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121 ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 3.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.10 METERS EAST OF THE CENTER OF SOUTH BOUND HIGHWAY 1, 11.70 METERS WEST OF THE CENTER OF NORTH BOUND HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999894365	
<b>Combined Adjust. Factor</b> 1.0000039574	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				390010A	
MK # 2					Geodetic Azimuth	0 49 46
MK # 3					Grid Azimuth	0 07 37

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390010A	<b>Date Monumented</b> 4/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 1	<b>Job Number:</b> 110229
---------------------------	-------------------------------------	------------------------------	----------------------	-------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	60,036.0390	
<b>Easting (M)</b>	510,388.3750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	196,968.2380	
<b>Easting (SFT)</b>	1,674,499.1936	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	42	9.1254531
<b>Scale Factor</b>	1.000013409		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 4.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS EAST OF THE CENTER OF SOUTH BOUND HIGHWAY 1, 11.00 METERS WEST OF THE CENTER OF NORTH BOUND HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390010A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BRINKLEYPORT</p> <p>Ref Mon # 2: H 349</p> <p>Ref Mon # 3: 390006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390011	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> Lee	<b>Route</b> 131	<b>Job Number:</b> 110570
--------------------------	------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	56,980.9287				
<b>Easting (M)</b>	527,477.8287				
<b>Elevation (M)*</b>	60.479				
<b>Northing (SFT)</b>	186,944.9302				
<b>Easting (SFT)</b>	1,730,566.8430				
<b>Elevation (SFT)*</b>	198.422				

  

<b>Convergence Angle</b>	0	48	39.6251005
<b>Scale Factor</b>	1.000019931		
<b>Elevation Adjust. Factor</b>	0.9999905089		
<b>Combined Adjust. Factor</b>	1.0000104397		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	east of the centerline of highway 131	250	9.45	31.0
<b>MK # 2</b>	south east of a power pole	283	24.08	79.0
<b>MK # 3</b>	east of the witness post		0.61	2.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390011A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> Lee	<b>Route</b> 131	<b>Job Number:</b> 110570
---------------------------	------------------------------------	------------------------------	----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	57,451.3301				
<b>Easting (M)</b>	527,351.0731				
<b>Elevation (M)*</b>	60.047				
<b>Northing (SFT)</b>	188,488.2388				
<b>Easting (SFT)</b>	1,730,150.9790				
<b>Elevation (SFT)*</b>	197.003				

  

<b>Convergence Angle</b>	0	48	36.8747473
<b>Scale Factor</b>	1.000018976		
<b>Elevation Adjust. Factor</b>	0.9999905768		
<b>Combined Adjust. Factor</b>	1.0000095526		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	west of the centerline of highway 131	90	10.36	34.0
<b>MK # 2</b>	east of witness post		1.52	5.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390012	<b>Date Monumented</b> 2/29/2016	<b>Monumented By</b> AHTD	<b>County</b> Lee	<b>Route</b> 78	<b>Job Number:</b> 110616
--------------------------	-------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	42,915.8666	0.0020
<b>Easting (M)</b>	495,854.6277	0.0020
<b>Elevation (M)*</b>	54.999	
<b>Northing (SFT)</b>	140,799.8057	
<b>Easting (SFT)</b>	1,626,816.3910	
<b>Elevation (SFT)*</b>	180.443	

  

<b>Convergence Angle</b>	0	36	31.9992470
<b>Scale Factor</b>	1.000049943		
<b>Elevation Adjust. Factor</b>	0.9999913689		
<b>Combined Adjust. Factor</b>	1.0000413115		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole with guy	11	29.50	96.8	
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARWY	Elevation determined by static GPS holding NGS BM's M during job 1106156 by crew s5102 in February 2016.
Ref Mon # 2: MSOX	
Ref Mon # 3: ARPB	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	34 42 56.0437092
<b>Longitude</b>	90 57 13.0253796
<b>Ellipsoid Height (M):</b>	28.260 0.0110
<b>Geoid Height (M):</b>	-26.741

Location Description
<p>To reach from the intersection of hwy 121 and 78 in Aubrey. Go west on hwy 78 for 3.0 miles to the station on the right. The station is 1 FT. East of a witness post, 38 FT. West of the centerline of hwy.78, and 59 FT. North of the center of Lee Co. Rd. 157. The station mark is a 2 1/2 in. Cap stamped "390012 2016" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390012A	<b>Date Monumented</b> 2/29/2016	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 78	<b>Job Number:</b> 110616
---------------------------	-------------------------------------	------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	42,238.7001	0.0020			
<b>Easting (M)</b>	495,849.9998	0.0020			
<b>Elevation (M)*</b>	54.918				
<b>Northing (SFT)</b>	138,578.1352				
<b>Easting (SFT)</b>	1,626,801.2077				
<b>Elevation (SFT)*</b>	180.177				

  

<b>Convergence Angle</b>	0	36	31.7288852
<b>Scale Factor</b>	1.000051548		
<b>Elevation Adjust. Factor</b>	0.9999913816		
<b>Combined Adjust. Factor</b>	1.0000429292		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH TRANSFORMER	110	19.30	63.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARWY	Elevation determined by static GPS holding NGS BM's M during job 1106156by crew s5102 in February 2016.
Ref Mon # 2: MSOX	
Ref Mon # 3: ARPB	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	34 42 34.0727004
<b>Longitude</b>	90 57 13.4899992
<b>Ellipsoid Height (M):</b>	28.169 0.0110
<b>Geoid Height (M):</b>	-26.745

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY 121 AND HWY 78 IN AUBREY. GO WEST ON HWY 78 FOR 3.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FT. NORTH OF A WITNESS POST, 18.5 FT. WEST OF THE CENTERLINE OF HWY 78, AND 17 FT. SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "390012A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

<b>AZ Mark Station</b>	390012
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390013	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110568, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	633,543.2604 0.0030
<b>Easting (M)</b>	486,111.2956 0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	2,078,549.8468	
<b>Easting (SFT)</b>	1,594,850.1423	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	35.3315718
<b>Scale Factor</b>	1.000000455		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 68 FEET SOUTH EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 133 FEET SOUTH WEST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 8 FEET NORTH WEST OF A WITNESS POST.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	143	2.74	9.0
MK # 2	TELEPHONE PEDESTAL	221	51.82	170.0
MK # 3				

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARJB</p> <p>Ref Mon # 2    AROC</p> <p>Ref Mon # 3    ARPB, ARWY</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>STATIC GPS DERIVED ELEV. 183.2578</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390013A	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110568, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	633,211.3956	0.0030	
<b>Easting (M)</b>	486,503.1570	0.0030	
<b>Elevation (M)*</b>	56.348		

  

<b>Northing (SFT)</b>	2,077,461.0537		
<b>Easting (SFT)</b>	1,596,135.7743		
<b>Elevation (SFT)*</b>	184.869		

  

<b>Convergence Angle</b>	0	31	43.8886315
<b>Scale Factor</b>	0.999999780		
<b>Elevation Adjust. Factor</b>	0.9999911572		
<b>Combined Adjust. Factor</b>	0.9999909372		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO LEE COUNTY ROAD NUMBER 135, ON THE RIGHT, THEN TRAVEL SOUTH EAST ALONG LEE COUNTY ROAD NUMBER 135, 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 22 FEET NORTH EAST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 4 FEET SOUTH WEST OF A WITNESS POST. 21 FEET NORTH OF THE CENTER OF A FIELD ENTRANCE LEADING EAST.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF 24" STEEL CULVERT	72	6.10	20.0
MK # 2	SOUTH END OF 24" STEEL CULVERT	118	14.63	48.0
MK # 3				

  

<p style="text-align: center; margin-top: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARJB</p> <p>Ref Mon # 2    AROC</p> <p>Ref Mon # 3    ARPB, ARWY</p>	<p style="text-align: center; margin-top: 0;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM GPS #390013 WHOSE ELEVATION IS STATIC GPS DERIVED</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390014	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110568, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	634,408.7063	0.0020			
<b>Easting (M)</b>	499,920.1236	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,081,389.2306				
<b>Easting (SFT)</b>	1,640,154.6055				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	39.4490640
<b>Scale Factor</b>	1.000001930		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 79, 7.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390014, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .2 FT BELOW THE GROUND SURFACE, 48 FEET NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 64 FEET EAST OF THE CENTER OF ARKANSAS HIGHWAY 121 NORTH AND 7 FEET SOUTH OF A WITNESS POST.				

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	187	33.53	110.0
MK # 2	CENTER OF EAST HEADWALL	250	12.80	42.0
MK # 3	POWER POLE	292	4.57	15.0

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARJB Ref Mon # 2    AROC Ref Mon # 3    ARPB, ARWY	<b>Comments</b> STATIC GPS DERIVED ELEV. 205.4409
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390014A	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110568, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	634,794.7004	0.0030			
<b>Easting (M)</b>	499,912.8462	0.0020			
<b>Elevation (M)*</b>	62.415				
<b>Northing (SFT)</b>	2,082,655.6129				
<b>Easting (SFT)</b>	1,640,130.7296				
<b>Elevation (SFT)*</b>	204.773				

  

<b>Convergence Angle</b>	0	36	39.3794799
<b>Scale Factor</b>	1.000002717		
<b>Elevation Adjust. Factor</b>	0.9999902052		
<b>Combined Adjust. Factor</b>	0.9999929221		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	85	1.83	6.0
<b>MK # 2</b>	IRRIGATION WELL	41	15.24	50.0
<b>MK # 3</b>	POWER POLE	153	29.26	96.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB	ELEV. BASED ON DIGITAL LEVELS FROM GPS #390014 WHOSE ELEVATION IS STATIC GPS DERIVED
<b>Ref Mon # 2</b> AROC	
<b>Ref Mon # 3</b> ARPB, ARWY	

  

Location Description	
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 79, 7.7 MILES TO STATE HIGHWAY 121 THEN TRAVEL NORTH ALONG STATE HIGHWAY 121, 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .2 FT BELOW THE GROUND SURFACE, 41 FEET EAST OF THE CENTER OF ARKANSAS HIGHWAY 121 NORTH AND 5 FEET WEST OF A WITNESS POST..	

  

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390015	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110707, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	635,556.1507 0.0020
<b>Easting (M)</b>	512,695.1708 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	2,085,153.8044	
<b>Easting (SFT)</b>	1,682,067.4062	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	20.9325366
<b>Scale Factor</b>	1.000003982		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 79, 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390015, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET SOUTH EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 12 FEET NORTH OF A FLAG POLE. THE STATION IS SET IN THE LAWN OF THE LEE COUNTY ARDOT MAINTENANCE HEADQUARTERS.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FLAG POLE	143	3.66	12.0
<b>MK # 2</b>	CENTER OF SOUTH HEAD WALL	32	14.63	48.0
<b>MK # 3</b>	NORTH EAST COR. OF METAL SHOP BLD.	72	21.64	71.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARPB, ARWY	STATIC GPS DERIVED ELEV. 221.1085    

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 390015A	<b>Date Monumented</b> 12/2/2019	<b>Monumented By</b> AHTD	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> 110707, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	----------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	635,777.5139 0.0020
<b>Easting (M)</b>	512,924.3078 0.0020
<b>Elevation (M)*</b>	64.023

  

<b>Northing (SFT)</b>	2,085,880.0602	
<b>Easting (SFT)</b>	1,682,819.1665	
<b>Elevation (SFT)*</b>	210.048	

  

<b>Convergence Angle</b>	0	41	26.0351277
<b>Scale Factor</b>	1.000004432		
<b>Elevation Adjust. Factor</b>	0.9999899529		
<b>Combined Adjust. Factor</b>	0.9999943848		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	32	32.61	107.0
MK # 2	COMBINATION POLE	244	34.75	114.0
MK # 3	SOUTH WEST COR. OF METAL SHOP BLD.	5	41.15	135.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARPB, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM GPS #390015, WHOSE ELEVATION IS STATIC GPS DERIVED

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400001	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930,R20109,R20125
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	536,477.6941	
<b>Easting (M)</b>	413,739.3990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,760,093.9014	
<b>Easting (SFT)</b>	1,357,410.0116	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	59.3156530
<b>Scale Factor</b>	0.999921327		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 27.0 FEET SOUTHEAST OF A DRIVEWAY, AND 7.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN CROSS TIE	233	37.07	121.6
<b>MK # 2</b>	NBC IN CROSS TIE	276	31.09	102.0
<b>MK # 3</b>	NBC IN CROSS TIE	167	17.37	57.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    K 124</p> <p><b>Ref Mon # 2</b>    AHTD LITTLE ROCK</p> <p><b>Ref Mon # 3</b>    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400001A AZ MK	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930,R20109,R20125
---------------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	535,918.5061	
<b>Easting (M)</b>	413,735.1620	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,758,259.2988	
<b>Easting (SFT)</b>	1,357,396.1107	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	59.2056765
<b>Scale Factor</b>	0.999921541		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	1	39.62	130.0
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	170	27.72	91.0
<b>MK # 3</b>	NBC IN CROSS TIE	274	31.48	103.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 53 31.3397340
<b>Longitude</b>	91 51 5.4088704
<b>Ellipsoid Height (M):</b>	89.495
<b>Geoid Height (M):</b>	-25.731

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.873 KM (3.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 24.0 FEET SOUTH OF A DRIVEWAY AND 7.25 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400002	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930, R20109
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,276.1121	
<b>Easting (M)</b>	414,596.7370	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,782,398.3778	
<b>Easting (SFT)</b>	1,360,222.7946	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	18.2214033
<b>Scale Factor</b>	0.999919346		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 1.851 KM (1.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.39 METERS SOUTH OF THE ENTRANCE TO THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT AREA LOT, 17.373 METERS EAST OF THE CENTER OF HIGHWAY 425 AND 12.10 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400002 1993. THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	190	10.66	35.0
MK # 2	NBC IN COMBINATION POLE	239	46.62	152.9
MK # 3	NBC IN POWER POLE	354	13.41	44.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400002A	<b>Date Monumented</b> 1/11/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20109
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	543,531.3011	
<b>Easting (M)</b>	414,621.7940	
<b>Elevation (M)*</b>	79.138	
<b>Northing (SFT)</b>	1,783,235.6104	
<b>Easting (SFT)</b>	1,360,305.0025	
<b>Elevation (SFT)*</b>	259.639	

  

<b>Convergence Angle</b>	0	5	18.7762648
<b>Scale Factor</b>	0.999919294		
<b>Elevation Adjust. Factor</b>	0.9999875808		
<b>Combined Adjust. Factor</b>	0.9999068758		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	93	35.43	116.2
MK # 2	NBC IN COMBINATION POLE	167	51.26	168.2
MK # 3	NBC IN COMBINATION POLE	5	58.74	192.7

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    CELLPORT Ref Mon # 2    DUMAS Ref Mon # 3    TARRY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 57 38.3932224
<b>Longitude</b>	91 50 30.4420776
<b>Ellipsoid Height (M):</b>	52.459
<b>Geoid Height (M):</b>	-26.580

Location Description
FROM THE JCT. OF HWY. 425 AND HWY. 212 IN STAR CITY, GO NORTH ON HWY. 425 FOR 1.30 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.76 FEET WEST OF THE CENTERLINE OF HWY. 425, 108.38 FEET NORTHWEST OF THE ENTRANCE TO A CHURCH AND 3.0 FEET EAST OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400003A	<b>Date Monumented</b> 4/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20113
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,886.1450	
<b>Easting (M)</b>	417,139.2360	
<b>Elevation (M)*</b>	57.137	
<b>Northing (SFT)</b>	1,804,084.7941	
<b>Easting (SFT)</b>	1,368,564.3101	
<b>Elevation (SFT)*</b>	187.457	

  

<b>Convergence Angle</b>	0	6	13.9111810
<b>Scale Factor</b>	0.999918511		
<b>Elevation Adjust. Factor</b>	0.9999910334		
<b>Combined Adjust. Factor</b>	0.9999095452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	1	62.58	205.3
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	174	14.88	48.8
<b>MK # 3</b>	NBC IN COMBINATION POLE	224	47.93	157.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 350013	Elevations based on 3 wire from NGS point TARRY
<b>Ref Mon # 2</b> 93400002	
<b>Ref Mon # 3</b> DIST2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400004	<b>Date Monumented</b> 4/15/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930, R20125, R20115
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,865.6892	
<b>Easting (M)</b>	414,920.3980	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,721,996.8487	
<b>Easting (SFT)</b>	1,361,284.6724	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	24.6457641
<b>Scale Factor</b>	0.999927343		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILE NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 0.80 KM (0.05 MI) TO THE MT. ZION PRESBYTERIAN CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 66.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 72.69 FEET NORTHWEST OF THE WEST DOOR OF THE CHURCH, AND 2.00 WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN OAK TREE		13	30.60	100.4	
MK # 2	NBC IN LIGHT POLE		83	52.81	173.3	
MK # 3	NBC IN POWER POLE		176	43.07	141.3	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400004A AZ MK	<b>Date Monumented</b> 4/15/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930, R20125
---------------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	525,430.0601	
<b>Easting (M)</b>	414,830.3990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,723,848.4555	
<b>Easting (SFT)</b>	1,360,989.4007	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	22.7067340
<b>Scale Factor</b>	0.999926974		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN PINE TREE	206	46.74	153.4
<b>MK # 2</b>	NBC IN DOUBLE GUM	237	36.97	121.3
<b>MK # 3</b>	NBC IN DOUBLE GUM	254	37.04	121.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 47 50.8482312
<b>Longitude</b>	91 50 23.4195036
<b>Ellipsoid Height (M):</b>	55.414
<b>Geoid Height (M):</b>	-25.675

Location Description
<p>TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILES NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR .627 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 2.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>

<b>AZ Mark Station</b>	93400004
<b>Geodetic Azimuth</b>	171 01 45
<b>Grid Azimuth</b>	170 56 22

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400005	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> R20091
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	557,848.1610				
<b>Easting (M)</b>	425,984.5730				
<b>Elevation (M)*</b>	56.312				
<b>Northing (SFT)</b>	1,830,206.8415				
<b>Easting (SFT)</b>	1,397,584.3866				
<b>Elevation (SFT)*</b>	184.750				

  

<b>Convergence Angle</b>	0	9	27.3588596
<b>Scale Factor</b>	0.999918930		
<b>Elevation Adjust. Factor</b>	0.9999911629		
<b>Combined Adjust. Factor</b>	0.9999100936		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" METAL PIPE	346	6.60	21.7
MK # 2	24" METAL PIPE	50	5.20	17.1
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> TARRY 1940	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".
<b>Ref Mon # 2</b> DIST2 1995	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400005A	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> R20091
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	557,639.9559				
<b>Easting (M)</b>	426,330.0040				
<b>Elevation (M)*</b>	56.537				
<b>Northing (SFT)</b>	1,829,523.7553				
<b>Easting (SFT)</b>	1,398,717.6881				
<b>Elevation (SFT)*</b>	185.488				

  

<b>Convergence Angle</b>	0	9	34.8884460
<b>Scale Factor</b>	0.999918899		
<b>Elevation Adjust. Factor</b>	0.9999911276		
<b>Combined Adjust. Factor</b>	0.9999100273		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 1.77 KM (1.10 MILES) TO THE STATION ON THE LEFT IN A GRAVEL PULL-OFF. THE STATION IS 15.60 METERS SOUTH OF THE CENTER OF HWY. 65, 9.5 METERS NORTH OF THE NORTHERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "400005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

<b>Location Reference Marks</b>					
<b>Description</b>			<b>Azimuth</b>	<b>Distance</b>	
				<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>	NONE				
<b>MK # 2</b>	NONE				
<b>MK # 3</b>	NONE				

  

<b>Area Reference Monuments (used for Processing)</b>	
<b>Ref Mon # 1</b>	TARRY 1940
<b>Ref Mon # 2</b>	DIST2 1995
<b>Ref Mon # 3</b>	NONE

  

<b>Comments</b>
<p>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400006	<b>Date Monumented</b> 2/24/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930, R20125
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,463.6152	
<b>Easting (M)</b>	414,075.1650	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,743,643.5442	
<b>Easting (SFT)</b>	1,358,511.6038	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	6.4680749
<b>Scale Factor</b>	0.999923518		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.80 METERS SOUTH OF A GRAVEL DRIVEWAY, 13.453 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	3	19.82	65.0
MK # 2	SWEET GUM TREE	32	19.08	62.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400006A	<b>Date Monumented</b> 2/24/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930, R20125
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	532,220.7261	
<b>Easting (M)</b>	414,019.7600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,746,127.4989	
<b>Easting (SFT)</b>	1,358,329.8293	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	5.2861062
<b>Scale Factor</b>	0.999923147		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE LEFT SET ON TOP OF A HILL NEXT TO A CEMETERY. THE STATION IS 15.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 3.82 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK LEADING TO A CEMETERY AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "400006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	354	3.90	12.8
MK # 2	WOODEN FENCE LINE POST	335	1.75	5.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    K 124	
Ref Mon # 2    AHTD LITTLE ROCK	
Ref Mon # 3    AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400007	<b>Date Monumented</b> 4/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20113
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,267.6270	
<b>Easting (M)</b>	415,486.2890	
<b>Elevation (M)*</b>	57.417	
<b>Northing (SFT)</b>	1,825,021.3729	
<b>Easting (SFT)</b>	1,363,141.2665	
<b>Elevation (SFT)*</b>	188.376	

  

<b>Convergence Angle</b>	0	5	38.0785891
<b>Scale Factor</b>	0.999918725		
<b>Elevation Adjust. Factor</b>	0.9999909895		
<b>Combined Adjust. Factor</b>	0.9999097152		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF YORKTOWN AT THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 199. THE STATION IS 15.25 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 425, 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 199 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400007 1999" SET ON TOP OF AN ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END OF RCP	284	11.00	36.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	Elevations based on 3 wire from NGS point TARRY
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400007A	<b>Date Monumented</b> 4/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20113
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,035.7030	
<b>Easting (M)</b>	415,857.0810	
<b>Elevation (M)*</b>	58.051	
<b>Northing (SFT)</b>	1,824,260.4689	
<b>Easting (SFT)</b>	1,364,357.7732	
<b>Elevation (SFT)*</b>	190.456	

  

<b>Convergence Angle</b>	0	5	46.1647738
<b>Scale Factor</b>	0.999918700		
<b>Elevation Adjust. Factor</b>	0.9999908900		
<b>Combined Adjust. Factor</b>	0.9999095907		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST	350	2.48	8.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    350013 Ref Mon # 2    93400002 Ref Mon # 3    DIST2	<b>Comments</b> Elevations based on 3 wire from NGS point TARRY
--	--

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 199, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF YORKTOWN, GO SOUTHEAST ON U.S. HIGHWAY 425 FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.75 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    4    24.1918896
<b>Longitude</b>	91    49    41.5069968
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-25.728

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400008	<b>Date Monumented</b> 4/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20113
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	550,319.6881	
<b>Easting (M)</b>	417,131.9240	
<b>Elevation (M)*</b>	56.506	
<b>Northing (SFT)</b>	1,805,507.1767	
<b>Easting (SFT)</b>	1,368,540.3207	
<b>Elevation (SFT)*</b>	185.387	

  

<b>Convergence Angle</b>	0	6	13.7688010
<b>Scale Factor</b>	0.999918494		
<b>Elevation Adjust. Factor</b>	0.9999911324		
<b>Combined Adjust. Factor</b>	0.9999096272		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 IN, STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 9.66 KM (6.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 14.50 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "400008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	155	3.80	12.5
<b>MK # 2</b>	NORTHWEST CORNER OF A BRICK HOUSE	153	33.15	108.8
<b>MK # 3</b>	NBC IN COMBINATION POLE	214	60.59	198.8

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	350013	<p>Elevations based on 3 wire from NGS point TARRY</p>
<b>Ref Mon # 2</b>	93400002	
<b>Ref Mon # 3</b>	DIST2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400009	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	525,282.4791	
<b>Easting (M)</b>	409,312.1480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,723,364.2668	
<b>Easting (SFT)</b>	1,342,884.9389	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	22.6275598
<b>Scale Factor</b>	0.999927065		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 6.808 KM (4.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS EAST OF COUNTY ROAD 20 AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400009A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 524,842.3322		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 409,579.8610		<b>Latitude</b> 33 47 31.9908660
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 53 47.5743372
<b>Northing (SFT)</b> 1,721,920.2182		<b>Ellipsoid Height (M):</b> 38.592
<b>Easting (SFT)</b> 1,343,763.2606		<b>Geoid Height (M):</b> -25.668
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 3 28.4431750	<b>Location Description</b>
<b>Scale Factor</b> 0.999927354	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 7.323 KM (4.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.10 METERS NORTHEAST OF COUNTY ROAD 20 AND 0.95 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				<b>AZ Mark Station</b> 400009
MK # 2					<b>Geodetic Azimuth</b> 328 44 54
MK # 3					<b>Grid Azimuth</b> 328 41 26

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400010	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	528,271.1271	
<b>Easting (M)</b>	409,663.8480	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,733,169.5228	
<b>Easting (SFT)</b>	1,344,038.8080	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	30.3466846
<b>Scale Factor</b>	0.999925231		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 14.097 KM (8.76 MI) TO LINCOLN COUNTY ROAD 26 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 26, AND GO SOUTHEAST FOR 4.249 KM (2.64 MI) TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT LACO FARM, 25.60 METERS WEST OF THE GRAVEL FARM ENTRANCE, 8.90 METERS NORTH OF COUNTY ROAD 26, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 400010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	206	14.20	46.6
MK # 2	TELEPHONE JUNCTION BOX	299	23.10	75.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400010A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	528,405.6251	
<b>Easting (M)</b>	409,404.3270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,733,610.7883	
<b>Easting (SFT)</b>	1,343,187.3628	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	24.7007692
<b>Scale Factor</b>	0.999925154		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 14.097 KM (8.76 MI) TO LINCOLN COUNTY ROAD 26 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 26, AND GO SOUTHEAST FOR 3.943 KM (2.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS NORTH OF THE CENTER OF COUNTY ROAD 26 AND 0.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400010A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	110	21.65	71.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	400010
<b>Geodetic Azimuth</b>	117 27 09
<b>Grid Azimuth</b>	117 23 44

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400011	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	531,838.7661	
<b>Easting (M)</b>	409,382.3580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,744,874.3518	
<b>Easting (SFT)</b>	1,343,115.2862	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	24.2965930
<b>Scale Factor</b>	0.999923330		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.345 KM (7.05 MI) TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE NEWTON CHAPEL CEMETERY, 16.30 METERS WEST OF THE CENTER OF THE PAVED ENTRANCE TO THE CEMETERY, 12.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	12.85	42.2
MK # 2	CHAIN LINK FENCE CORNER POST CEMETE	338	19.15	62.8
MK # 3	BY FENCE			

  

<b>AZ Mark Station</b>	400011A
<b>Geodetic Azimuth</b>	331 22 36
<b>Grid Azimuth</b>	331 19 11

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400011A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	532,032.6851	
<b>Easting (M)</b>	409,276.2780	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,745,510.5677	
<b>Easting (SFT)</b>	1,342,767.2554	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	21.9908859
<b>Scale Factor</b>	0.999923235		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CORRIGATED METAL PIPE	306	10.86	35.6
<b>MK # 2</b>	SOUTH END CORRIGATED METAL PIPE	242	3.60	11.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 51 25.3884816
<b>Longitude</b>	91 53 59.1026496
<b>Ellipsoid Height (M):</b>	56.419
<b>Geoid Height (M):</b>	-25.707

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.152 KM (6.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, 7.60 METERS SOUTHEAST OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400012	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	536,163.4761	
<b>Easting (M)</b>	410,189.2670	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,759,063.0045	
<b>Easting (SFT)</b>	1,345,762.6201	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	41.9679957
<b>Scale Factor</b>	0.999921445		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 6.324 KM (3.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 9.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER BLUE METAL BUILDING	101	14.50	47.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400012A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 001930,020355
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,025.6111	
<b>Easting (M)</b>	411,017.2450	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,761,891.5258	
<b>Easting (SFT)</b>	1,348,479.0780	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	0.0269134
<b>Scale Factor</b>	0.999921124		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	45	9.45	31.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 54 7.3896768
<b>Longitude</b>	91 52 51.1436352
<b>Ellipsoid Height (M):</b>	69.484
<b>Geoid Height (M):</b>	-25.729

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 5.149 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 11 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	400012
<b>Geodetic Azimuth</b>	223 54 32
<b>Grid Azimuth</b>	223 50 32

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400013	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 114	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	540,067.1721	
<b>Easting (M)</b>	409,686.4710	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,771,870.3805	
<b>Easting (SFT)</b>	1,344,113.0303	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	31.1018822
<b>Scale Factor</b>	0.999920138		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST END CONCRETE HEADWALL	235	10.56	34.6
<b>MK # 2</b>	POWER POLE	151	11.50	37.7
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	400013A
<b>Geodetic Azimuth</b>	241 54 52
<b>Grid Azimuth</b>	241 51 21

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	K 124
<b>Ref Mon # 2</b>	AHTD LITTLE ROCK
<b>Ref Mon # 3</b>	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400013A	<b>Date Monumented</b> 1/15/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 114	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	539,870.0301	
<b>Easting (M)</b>	409,317.9430	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,771,223.5904	
<b>Easting (SFT)</b>	1,342,903.9513	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	23.0661523
<b>Scale Factor</b>	0.999920195		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 114 FOR 4.972 KM (3.08 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.23 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 114 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400013A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	240	19.40	63.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400014	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 212	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,390.3581	
<b>Easting (M)</b>	407,795.4910	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,782,773.1999	
<b>Easting (SFT)</b>	1,337,909.0401	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	49.9505481
<b>Scale Factor</b>	0.999919321		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 6.566 KM (4.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.70 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400014A	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 212	<b>Job Number:</b> 001930,020355
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 543,347.8750		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 407,129.2140		<b>Latitude</b> 33 57 32.7191400
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 55 22.3032936
<b>Northing (SFT)</b> 1,782,633.8199		<b>Ellipsoid Height (M):</b> 52.638
<b>Easting (SFT)</b> 1,335,723.0963		<b>Geoid Height (M):</b> -25.731
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 2 35.4242603	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 7.242 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.65 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 15.24 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999919329	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	295	5.90	19.4
<b>MK # 2</b>	METAL CORNER POST	95	7.43	24.4
<b>MK # 3</b>	CORRIGATED METAL PIPE	55	8.57	28.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400015	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,353.9370	
<b>Easting (M)</b>	404,897.4300	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,802,338.7083	
<b>Easting (SFT)</b>	1,328,400.9849	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	46.8368850
<b>Scale Factor</b>	0.999918537		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72 (A PAVED ROAD ON THE LEFT), TURN LEFT, (WEST) ON COUNTY ROAD 72 AND GO 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.65 MI AND IT INTERSECTS STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 11.20 METERS EAST OF A GRAVEL ROAD, 5.85 METERS SOUTH OF THE CENTER OF COUNTY ROAD 72, AND 0.69 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	253	4.20	13.8
MK # 2	WOODEN CORNER POST	235	7.00	23.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400015A	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,364.0960	
<b>Easting (M)</b>	404,563.9880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,802,372.0383	
<b>Easting (SFT)</b>	1,327,307.0173	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	39.5629937
<b>Scale Factor</b>	0.999918537		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH FOR 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72, (A PAVED ROAD TO THE LEFT), TURN LEFT (WEST) ON COUNTY ROAD 72 AND GO 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.45 MI AND IT INTERSECTS WITH STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 7.70 METERS NORTH OF THE CENTER OF COUNTY ROAD 72 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	296	1.65	5.4
MK # 2	END OF METAL PIPE UNDER DRIVEWAY	255	11.20	36.7
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400016	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,048.7800	
<b>Easting (M)</b>	404,349.2910	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,817,741.7057	
<b>Easting (SFT)</b>	1,326,602.6322	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	34.9264316
<b>Scale Factor</b>	0.999918538		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE STATION ON THE RIGHT, SET IN A GAS PIPELINE RIGHT OF WAY. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF OLD STAR CITY ROAD, 8.00 METERS WEST OF THE CENTER OF THE ENTRANCE TO MISSISSIPPI RIVER TRANSMISSION CORP. PIPE LINE RIGHT OF WAY, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END GATE POST	165	7.70	25.3
MK # 2	WOODEN POST FOR PIPE LINE MARKER	323	5.75	18.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    K 124</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400016A	<b>Date Monumented</b> 1/16/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> N/A	<b>Job Number:</b> 001930
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,659.8190	
<b>Easting (M)</b>	404,371.4680	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,819,746.4228	
<b>Easting (SFT)</b>	1,326,675.3913	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	35.4166293
<b>Scale Factor</b>	0.999918577		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE GAS PIPE LINE RIGHT OF WAY AND POINT NUMBER 400016 ON THE RIGHT. STATION 400016A IS ON THE LEFT THROUGH A LOCKED GATE ON PIPE LINE RIGHT OF WAY. TURN LEFT (NORTH) AND GO NORTH ABOUT 0.30 MI TO A METAL TOWER DEER STAND AND THE STATION. THE STATION IS 4.50 METERS WEST OF THE CENTER OF A DIRT TRACK ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. STATION IS ON THE RIGHT OF WAY OF THE MISSISSIPPE RIVER TRANSMISSION CORP. PIPE LINE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER METAL DEER TOWE	57	10.00	32.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400017	<b>Date Monumented</b> 1/19/2002	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> 001930
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,897.0291	
<b>Easting (M)</b>	414,473.3850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,781,154.6696	
<b>Easting (SFT)</b>	1,359,818.0973	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	15.5195856
<b>Scale Factor</b>	0.999919426		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF BRIDGE	31	5.35	17.6
<b>MK # 2</b>	SOUTH END CONCRETE BRIDGE RAIL	140	2.95	9.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> K 124	
<b>Ref Mon # 2</b> AHTD LITTLE ROCK	
<b>Ref Mon # 3</b> AHTD MON 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 57 17.8134732
<b>Longitude</b>	91 50 36.2607900
<b>Ellipsoid Height (M):</b>	45.054
<b>Geoid Height (M):</b>	-25.750

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 LOCATED IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 1.368 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.90 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	93400002
<b>Geodetic Azimuth</b>	18 06 44
<b>Grid Azimuth</b>	18 01 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400018	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 54	<b>Job Number:</b> 020419
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,074.9481	
<b>Easting (M)</b>	439,148.9440	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,762,053.3922	
<b>Easting (SFT)</b>	1,440,774.4938	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	12.9173917
<b>Scale Factor</b>	0.999921133		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	170	23.45	76.9
MK # 2	POWER POLE	89	16.85	55.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 CSAL	
Ref Mon # 3 AHTD LROC	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 54 6.5719116
<b>Longitude</b>	91 34 36.0915060
<b>Ellipsoid Height (M):</b>	25.367
<b>Geoid Height (M):</b>	-25.867

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 83, WEST OF DUMAS, GO WEST ON HIGHWAY 54 1.2 MILES TO THE STATION ON THE RIGHT, NORTH 11.50 METERS OF THE CENTERLINE OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400018 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400018A	<b>Date Monumented</b> 10/26/2004	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 54	<b>Job Number:</b> 020419
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,109.8041	
<b>Easting (M)</b>	438,636.9920	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,762,167.7490	
<b>Easting (SFT)</b>	1,439,094.8646	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	1.7669878
<b>Scale Factor</b>	0.999921120		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHOE RISER	270	38.85	127.5
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	400018
<b>Geodetic Azimuth</b>	94 07 44
<b>Grid Azimuth</b>	93 53 42

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 CSAL	
Ref Mon # 3 AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400019	<b>Date Monumented</b> 3/17/2010	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 020506
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	543,003.0421				
<b>Easting (M)</b>	416,632.2360				
<b>Elevation (M)*</b>	66.476				
<b>Northing (SFT)</b>	1,781,502.4806				
<b>Easting (SFT)</b>	1,366,900.9276				
<b>Elevation (SFT)*</b>	218.098				

  

<b>Convergence Angle</b>	0	6	2.5864793
<b>Scale Factor</b>	0.999919404		
<b>Elevation Adjust. Factor</b>	0.9999895678		
<b>Combined Adjust. Factor</b>	0.9999089726		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	79	10.36	34.0
<b>MK # 2</b>	FENCE CORNER	211	16.92	55.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> C SAL <b>Ref Mon # 2</b> MSB6 <b>Ref Mon # 3</b> ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 57 21.1392540
<b>Longitude</b>	91 49 12.1663164
<b>Ellipsoid Height (M):</b>	40.718
<b>Geoid Height (M):</b>	-25.760

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11, 14, AND 425, IN STAR CITY, GO NORTH ON STATE HIGHWAY 11 FOR 1.70 MILES TO THE STATION MARK ON THE RIGHT, 72 FEET NORTHEAST OF THE CENTERLINE OF A GRAVEL DRIVE, SOUTHEAST 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 48.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	400019A
<b>Geodetic Azimuth</b>	234 48 04
<b>Grid Azimuth</b>	234 42 02

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400019A	<b>Date Monumented</b> 3/17/2010	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 0020506
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,702.9251	
<b>Easting (M)</b>	416,208.3570	
<b>Elevation (M)*</b>	64.185	
<b>Northing (SFT)</b>	1,780,517.8468	
<b>Easting (SFT)</b>	1,365,510.2513	
<b>Elevation (SFT)*</b>	210.579	

  

<b>Convergence Angle</b>	0	5	53.3346324
<b>Scale Factor</b>	0.999919470		
<b>Elevation Adjust. Factor</b>	0.9999899274		
<b>Combined Adjust. Factor</b>	0.9999093983		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK FENCE CORNER	33	27.74	91.0
MK # 2	COMBINATION POLE	142	5.61	18.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.
Ref Mon # 2: CSAL	
Ref Mon # 3: MSB6	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400020	<b>Date Monumented</b> 2/12/2012	<b>Monumented By</b> AHTD	<b>County</b> Lincoln	<b>Route</b> 212	<b>Job Number:</b> 020542
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	546,982.7532	
<b>Easting (M)</b>	442,970.4190	
<b>Elevation (M)*</b>	50.179	0.0011
<b>Northing (SFT)</b>	1,794,559.2495	
<b>Easting (SFT)</b>	1,453,312.1163	
<b>Elevation (SFT)*</b>	164.629	

  

<b>Convergence Angle</b>	0	15	37.1534825
<b>Scale Factor</b>	0.999918755		
<b>Elevation Adjust. Factor</b>	0.9999921254		
<b>Combined Adjust. Factor</b>	0.9999108810		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
Lat. 33.5928 Lon. 91.3206 Starting at the junction of highway 212 and 65. Go east on 212 for 1.4 miles to Duke lane. Turn left (north) on Duke lane and go 0.4 miles to the station on the right. The station is a standard 2" alum. cap on a 4 foot rebar. Stamped 400020-2012			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	east of duke lane	265	8.80	28.9		
MK # 2	north east of a pp	230	3.00	9.8		
MK # 3	south west of electric meter	40	4.60	15.1		

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation BASED ON NGS POINT 12 AR

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400020A	<b>Date Monumented</b> 2/12/2012	<b>Monumented By</b> AHTD	<b>County</b> Lincoln	<b>Route</b> 212	<b>Job Number:</b> 020542
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	546,183.1319	
<b>Easting (M)</b>	442,958.0180	
<b>Elevation (M)*</b>	48.997	0.0010
<b>Northing (SFT)</b>	1,791,935.8252	
<b>Easting (SFT)</b>	1,453,271.4307	
<b>Elevation (SFT)*</b>	160.749	

  

<b>Convergence Angle</b>	0	15	36.8038251
<b>Scale Factor</b>	0.999918858		
<b>Elevation Adjust. Factor</b>	0.9999923109		
<b>Combined Adjust. Factor</b>	0.9999111695		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
Lat. 33.5902 Lon. 91.3206 Starting at the junction of highway 65 and 212. Go east on 212 for 1.4 miles to the station on the right. The station is a standard 2" alum. Cap on a 4 foot and stamped 400020A-2012			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	south west of double cmp's	57	8.00	26.2	
<b>MK # 2</b>	west of pp with guy	85	2.40	7.9	
<b>MK # 3</b>	east of field entrance	270	2.75	9.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Elevation BASED ON NGS POINT 12 AR     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400021	<b>Date Monumented</b> 9/12/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 020581
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	562,408.3974	0.0040	
<b>Easting (M)</b>	428,841.9434	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,845,168.2171		
<b>Easting (SFT)</b>	1,406,958.9426		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	10	30.0517459
<b>Scale Factor</b>	0.999919872		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	109	51.00	167.3
MK # 2	NORTH END 24" CMP	347	47.00	154.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARHP	
Ref Mon # 3    ARPB, IULM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400021A	<b>Date Monumented</b> 9/12/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 020581
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	562,952.8973	0.0040	
<b>Easting (M)</b>	428,851.4972	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,846,954.6306		
<b>Easting (SFT)</b>	1,406,990.2871		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	10	30.2967944
<b>Scale Factor</b>	0.999920019		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	13	30.70	100.7
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	400021
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARPB, IULM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400022	<b>Date Monumented</b> 9/13/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 020583
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	536,755.1618	0.0020	
<b>Easting (M)</b>	410,759.1288	0.0020	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	1,761,004.2267		
<b>Easting (SFT)</b>	1,347,632.2417		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	3	54.3967806
<b>Scale Factor</b>	0.999921223		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW COR OF MTL BU	84	54.40	178.5
<b>MK # 2</b>	PP & TRANS	227	113.50	372.4
<b>MK # 3</b>	PP & TRANS & GY	56	135.50	444.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARHP, ARLR	
<b>Ref Mon # 3</b> ARP, IULM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 53 58.6210200
<b>Longitude</b>	91 53 1.2030000
<b>Ellipsoid Height (M):</b>	66.172 0.0110
<b>Geoid Height (M):</b>	-25.827 0.0110

Location Description
<p>FROM JCT OF US-425 &amp; SR-11S IN STAR CITY, GO S ON SR-11 3.4 MI TO STA ON L JUST PAST THE OVERPASS. 36.8' SE OF SR-11 C/L. STA IS A 2 1/2" ALUM CAP STAMPED "400022 2016" SET BELOW SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400022A	<b>Date Monumented</b> 9/13/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 11	<b>Job Number:</b> 020583
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	536,158.8644	0.0030			
<b>Easting (M)</b>	410,186.8579	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,759,047.8743				
<b>Easting (SFT)</b>	1,345,754.7163				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	3	41.9154051
<b>Scale Factor</b>	0.999921446		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PP & GY	212	46.00	150.9
<b>MK # 2</b>	FE COR	166	50.30	165.0
<b>MK # 3</b>	FE COR & R/W	229	55.30	181.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARHP, ARLR	
<b>Ref Mon # 3</b> ARP, IULM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 53 39.2868240
<b>Longitude</b>	91 53 23.5034880
<b>Ellipsoid Height (M):</b>	63.310 0.0110
<b>Geoid Height (M):</b>	-25.826 0.0110

Location Description
<p>FROM JCT OF US-425 &amp; SR-11S IN STAR CITY, GO S ON SR-11 3.9 MI TO STA ON L, JUST PAST A MTL BUILDING. 25.2' SE OF SR-11 C/L. STA IS A 2 1/2" ALUM CAP STAMPED "400022A 2016" SET BELOW SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400023	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 54	<b>Job Number:</b> 020614
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	534,543.9843	0.0020	
<b>Easting (M)</b>	436,719.2001	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,753,749.7218		
<b>Easting (SFT)</b>	1,432,802.9090		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	19.7685914
<b>Scale Factor</b>	0.999922125		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	255	12.60	41.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARWY, MSGN	STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.

  

<b>Vertical Determined By:</b> GPS - Unknown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33    52    44.7378672
<b>Longitude</b>	91    36    11.0525292
<b>Ellipsoid Height (M):</b>	25.199    0.0070
<b>Geoid Height (M):</b>	-25.900    0.0070

  

Location Description
THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 293 SOUTH, WEST OF DUMAS, 50 FEET SOUTHEAST OF THE CENTERLINE OF HIGHWAY 54 AND 49.1 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 293 SOUTH. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 400023" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 400023A	<b>Date Monumented</b> 9/26/2016	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 54	<b>Job Number:</b> 020614
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	534,225.9074	0.0020			
<b>Easting (M)</b>	436,258.6885	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,752,706.1645				
<b>Easting (SFT)</b>	1,431,292.0472				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	9.7119162
<b>Scale Factor</b>	0.999922260		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	150	13.00	42.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 40004A	<b>Date Monumented</b> 4/15/1993	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 425	<b>Job Number:</b> R20115
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality <b>Elevation Datum:</b> NAVD 88 <b>Geoid Datum:</b> <b>Latitude</b> 33 47 50.8608492 <b>Longitude</b> 91 50 23.4121704 <b>Ellipsoid Height (M):</b> 54.955 <b>Geoid Height (M):</b> -26.538			
<b>Horizontal Datum</b> NAD 83 (1986)					
<b>Northing (M)</b>	525,430.4491				
<b>Easting (M)</b>	414,830.5870				
<b>Elevation (M)*</b>	81.372				
<b>Northing (SFT)</b>	1,723,849.7318	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td style="padding: 5px;">                     THE STATION IS ON HWY. 425 0.39 MILES NORTH OF THE DREW AND LINCOLN COUNTY LINE, 59.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 2.00 FEET WEST OF A WITNESS POST.ELEVATION (NGVD 29) = 81.467 meters                 </td> </tr> </table>		Location Description	THE STATION IS ON HWY. 425 0.39 MILES NORTH OF THE DREW AND LINCOLN COUNTY LINE, 59.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 2.00 FEET WEST OF A WITNESS POST.ELEVATION (NGVD 29) = 81.467 meters
Location Description					
THE STATION IS ON HWY. 425 0.39 MILES NORTH OF THE DREW AND LINCOLN COUNTY LINE, 59.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 2.00 FEET WEST OF A WITNESS POST.ELEVATION (NGVD 29) = 81.467 meters					
<b>Easting (SFT)</b>	1,360,990.0175				
<b>Elevation (SFT)*</b>	266.968				
<b>Convergence Angle</b>	0 5 22.7108384				
<b>Scale Factor</b>	0.999926973				
<b>Elevation Adjust. Factor</b>	0.9999872302				
<b>Combined Adjust. Factor</b>	0.9999142042				
<b>SUPERCEDED CONTROL</b>					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	NBC IN 7" PINE	206	46.74	153.4	
<b>MK # 2</b>	NBC IN DOUBLE 6" GUM	237	36.97	121.3	
<b>MK # 3</b>	NBC IN DOUBLE 24" GUM	254	37.04	121.5	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> CELLPORT <b>Ref Mon # 2</b> DUMAS <b>Ref Mon # 3</b> TARRY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410001	<b>Date Monumented</b> 1/28/1999	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 30108, 030202
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	512,543.3501	
<b>Easting (M)</b>	198,402.9920	
<b>Elevation (M)*</b>	102.022	
<b>Northing (SFT)</b>	1,681,569.3078	
<b>Easting (SFT)</b>	650,927.1496	
<b>Elevation (SFT)*</b>	334.717	

  

<b>Convergence Angle</b>	-1	13	0.1030535
<b>Scale Factor</b>	0.999939457		
<b>Elevation Adjust. Factor</b>	0.9999839897		
<b>Combined Adjust. Factor</b>	0.9999234476		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	86	12.39	40.6
<b>MK # 2</b>	CROSS TIE FENCE POST	1	1.33	4.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> X 303	
<b>Ref Mon # 2</b> HOPEPORT	
<b>Ref Mon # 3</b> NEW BOSTON MAG STA	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 39 43.4582820
<b>Longitude</b>	94 10 25.9352112
<b>Ellipsoid Height (M):</b>	75.007
<b>Geoid Height (M):</b>	-26.990

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.09 KM (3.16 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 1.11 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410001A	<b>Date Monumented</b> 1/28/1999	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 30108, 030202
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 512,569.1531		<b>Latitude</b> 33 39 43.9547796
<b>Easting (M)</b> 197,909.0560		<b>Longitude</b> 94 10 45.1251912
<b>Elevation (M)*</b> 98.633		<b>Ellipsoid Height (M):</b> 71.626
<b>Northing (SFT)</b> 1,681,653.9631		<b>Geoid Height (M):</b> -26.990
<b>Easting (SFT)</b> 649,306.6279		
<b>Elevation (SFT)*</b> 323.598		

  

<b>Convergence Angle</b> -1 13 10.8435065	<b>Location Description</b>
<b>Scale Factor</b> 0.999939441	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.58 KM (3.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.77 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999845215	
<b>Combined Adjust. Factor</b> 0.9999239634	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	177	22.77	74.7
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> X 303 <b>Ref Mon # 2</b> HOPEPORT <b>Ref Mon # 3</b> NEW BOSTON MAG STA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410002	<b>Date Monumented</b> 1/28/1998	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030202
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 511,205.0382		<b>Latitude</b> 33 39 4.1175072
<b>Easting (M)</b> 204,427.3500		<b>Longitude</b> 94 6 31.0686408
<b>Elevation (M)*</b> 99.270		<b>Ellipsoid Height (M):</b> 72.288
		<b>Geoid Height (M):</b> -26.982

  

<b>Northing (SFT)</b> 1,677,178.5295		<b>Location Description</b>
<b>Easting (SFT)</b> 670,692.0641		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 2.90 KM (1.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.34 METERS NORTHWEST OF THE CENTER OF A CONCRETE DRIVEWAY, 23.14 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ENTRANCE TO LOCAL 1327, 10.89 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71 AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 325.688		

  

<b>Convergence Angle</b> -1 10 48.6504214	
<b>Scale Factor</b> 0.999940706	
<b>Elevation Adjust. Factor</b> 0.9999844215	
<b>Combined Adjust. Factor</b> 0.9999251285	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST END OF CMP	143	29.36	96.3
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	290	1.75	5.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> X 303	
<b>Ref Mon # 2</b> HOPEPORT	
<b>Ref Mon # 3</b> NEW BOSTON MAG STA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410002A	<b>Date Monumented</b> 1/28/1999	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030202
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 510,843.6941		<b>Latitude</b> 33 38 52.5806412
<b>Easting (M)</b> 204,710.9800		<b>Longitude</b> 94 6 19.7743428
<b>Elevation (M)*</b> 98.936		<b>Ellipsoid Height (M):</b> 71.955
		<b>Geoid Height (M):</b> -26.981

  

<b>Northing (SFT)</b> 1,675,993.0197		<b>Location Description</b>
<b>Easting (SFT)</b> 671,622.6069		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 3.36 KM (2.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHEAST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71, 6.80 METERS NORTHWEST OF THE CENTER OF A CONCRETE ENTRANCE TO CRYSTAL COMPUTERS AND 1.07 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 324.593		

  

<b>Convergence Angle</b> -1 10 42.3291080	
<b>Scale Factor</b> 0.999941079	
<b>Elevation Adjust. Factor</b> 0.9999844740	
<b>Combined Adjust. Factor</b> 0.9999255539	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					410002
MK # 2	NONE					320 41 32.52714
MK # 3	NONE					321 52 14.88780

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303	
Ref Mon # 2 HOPEPORT	
Ref Mon # 3 NEW BOSTON MAG STA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410003	<b>Date Monumented</b> 1/28/1999	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 030202
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	514,399.3652	
<b>Easting (M)</b>	205,551.5270	
<b>Elevation (M)*</b>	99.138	
<b>Northing (SFT)</b>	1,687,658.5840	
<b>Easting (SFT)</b>	674,380.3015	
<b>Elevation (SFT)*</b>	325.255	

  

<b>Convergence Angle</b>	-1	10	25.6569238
<b>Scale Factor</b>	0.999937470		
<b>Elevation Adjust. Factor</b>	0.9999844423		
<b>Combined Adjust. Factor</b>	0.9999219132		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.67 KM (2.28 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD ON THE LEFT. GO LEFT, NORTH ON THE GRVEL ROAD FOR ABOUT 30. 0 METERS TO THE STATION ON THE LEFT. THE STATION IS 8.95 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    X 303</p> <p>Ref Mon # 2    HOPEPORT</p> <p>Ref Mon # 3    NEW BOSTON MAG STA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410003A	<b>Date Monumented</b> 1/28/1999	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 030202
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	513,816.0581	
<b>Easting (M)</b>	205,543.8420	
<b>Elevation (M)*</b>	100.140	
<b>Northing (SFT)</b>	1,685,744.8506	
<b>Easting (SFT)</b>	674,355.0883	
<b>Elevation (SFT)*</b>	328.543	

  

<b>Convergence Angle</b>	-1	10	25.5642350
<b>Scale Factor</b>	0.999938038		
<b>Elevation Adjust. Factor</b>	0.9999842850		
<b>Combined Adjust. Factor</b>	0.9999223240		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.15 KM (1.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 48.45 METERS NORTH OF THE CENTER OF COUNTY ROAD 700, 18.20 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.95 METERS EAST OF THE CENTER OF STATE HIGHWAY 32 AND 1.165 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    X 303</p> <p>Ref Mon # 2    HOPEPORT</p> <p>Ref Mon # 3    NEW BOSTON MAG STA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410004	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> N/A	<b>Job Number:</b> 030208,030295,30108
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	503,012.1772	
<b>Easting (M)</b>	204,024.9170	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,650,299.1180	
<b>Easting (SFT)</b>	669,371.7485	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	53.7205044
<b>Scale Factor</b>	0.999950103		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.0 METERS WEST OF THE CENTER OF THE FARM ROAD, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    X 303, 660015,660017</p> <p>Ref Mon # 2    DQUA CORS,410001</p> <p>Ref Mon # 3    ARTX CORS, HOPE CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410004A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> N/A	<b>Job Number:</b> 030208,030295,30108
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	502,443.9782	
<b>Easting (M)</b>	204,050.4630	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,648,434.9518	
<b>Easting (SFT)</b>	669,455.5607	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	52.9119204
<b>Scale Factor</b>	0.999950814		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO STATION 410004 ON THE RIGHT. CONTINUE ON 0.35 MILES STRAIGHT AHEAD PASSING THROUGH TWO MORE GATES TO THE STATION STRAIGHT AHEAD SET ON THE BANK OF THE RED RIVER NEXT TO 4 STRANDS OF BARB WIRE. THE STATION IS 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				410004	
MK # 2					356 14 40	
MK # 3					357 25 33	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    X 303, 660015,660017	
Ref Mon # 2    DQUA CORS,410001	
Ref Mon # 3    ARTX CORS, HOPE CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410005	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> N/A	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	508,376.7001	
<b>Easting (M)</b>	202,008.5650	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,667,899.2236	
<b>Easting (SFT)</b>	662,756.4337	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	11	39.9006546
<b>Scale Factor</b>	0.999943816		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	355	21.80	71.5
<b>MK # 2</b>	GATE POST	104	9.50	31.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> X 303, 660015, 660017	
<b>Ref Mon # 2</b> DQUA CORS, 410001	
<b>Ref Mon # 3</b> ARTX CORS, HOPE CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 37 30.7056396
<b>Longitude</b>	94 8 2.6374920
<b>Ellipsoid Height (M):</b>	60.886
<b>Geoid Height (M):</b>	-26.966

Location Description
<p>TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 3.31MILES AND THE STATION ON THE LEFT. THE STATION IS 11.95 METERS EAST OF THE CENTER OF MLK JR. DR (CO ROAD 23), 5.50 METERS SOUTH OF A GRAVEL DRIVE, AND 1.45 METERS WEST OF A WITNESS. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED" 410005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410005A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> N/A	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	509,180.5522	
<b>Easting (M)</b>	202,023.1900	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,670,536.5283	
<b>Easting (SFT)</b>	662,804.4159	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	11	39.9470091
<b>Scale Factor</b>	0.999942927		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	234	3.50	11.5
<b>MK # 2</b>	TELEPHONE POLE	354	2.50	8.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> X 303, 660015,660017	
<b>Ref Mon # 2</b> DQUA CORS,410001	
<b>Ref Mon # 3</b> ARTX CORS, HOPE CORS	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 33 37 56.8020360

**Longitude** 94 8 2.7203136

**Ellipsoid Height (M):** 61.693

**Geoid Height (M):** -26.970

  

**Location Description**

TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 2.81 MILES AND THE STATION ON THE RIGHT AT THE HANEY CREEK MISSIONARY BAPTIST CHURCH. THE STATION IS 6.80 METERS WEST OF THE CENTER OF MARTIN LUTHER KING JR. DRIVE (CO. ROAD 23), AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410006	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	518,479.1192	
<b>Easting (M)</b>	201,010.2110	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,701,043.5769	
<b>Easting (SFT)</b>	659,481.0006	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	6.1771880
<b>Scale Factor</b>	0.999933814		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.35 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 4.40 METERS WEST OF A WEBB WIRE FENCE LINE, AND 4.22 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 410006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LOG MILE 14 SIGN POST	265	6.20	20.3
<b>MK # 2</b>	POWER POLE	4	26.90	88.3
<b>MK # 3</b>	NORTHERN MOST WOODEN BRACE POST	157	16.80	55.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    X 303, 660015,660017</p> <p><b>Ref Mon # 2</b>    DQUA CORS,410001</p> <p><b>Ref Mon # 3</b>    ARTX CORS, HOPE CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410006A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	519,095.6182	
<b>Easting (M)</b>	200,986.6190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,703,066.2074	
<b>Easting (SFT)</b>	659,403.5992	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	6.9710694
<b>Scale Factor</b>	0.999933283		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF PLASTIC PIPE	282	4.80	15.7
MK # 2	SOUTH GATE POST	22	6.40	21.0
MK # 3	GAS PIPE LINE MARKER	161	14.80	48.6

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    X 303, 660015,660017 Ref Mon # 2    DQUA CORS,410001 Ref Mon # 3    ARTX CORS, HOPE CORS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 43 17.8596912
<b>Longitude</b>	94 8 51.0042336
<b>Ellipsoid Height (M):</b>	71.316
<b>Geoid Height (M):</b>	-27.048

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	410006
<b>Geodetic Azimuth</b>	176 36 24
<b>Grid Azimuth</b>	177 48 31

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410007	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	523,955.8802	
<b>Easting (M)</b>	201,024.0370	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,719,011.9170	
<b>Easting (SFT)</b>	659,526.3614	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	8.3749254
<b>Scale Factor</b>	0.999929425		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.35 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    X 303, 660015, 660017</p> <p><b>Ref Mon # 2</b>    DQUA CORS, 410001</p> <p><b>Ref Mon # 3</b>    ARTX CORS, HOPE CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410007A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,690.2402	
<b>Easting (M)</b>	201,022.3350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,721,421.2297	
<b>Easting (SFT)</b>	659,520.7774	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	8.7471394
<b>Scale Factor</b>	0.999928893		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	410007
MK # 2					<b>Geodetic Azimuth</b>	178 39 53
MK # 3					<b>Grid Azimuth</b>	179 52 02

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	X 303, 660015, 660017
<b>Ref Mon # 2</b>	DQUA CORS, 410001
<b>Ref Mon # 3</b>	ARTX CORS, HOPE CORS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410008	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Little River	<b>Route</b> 41	<b>Job Number:</b> 030415
--------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	540,275.8841				
<b>Easting (M)</b>	177,402.1386				
<b>Elevation (M)*</b>	94.725				
<b>Northing (SFT)</b>	1,772,555.1298				
<b>Easting (SFT)</b>	582,026.8497				
<b>Elevation (SFT)*</b>	310.776				

  

<b>Convergence Angle</b>	-1	20	50.3957909
<b>Scale Factor</b>	0.999920898		
<b>Elevation Adjust. Factor</b>	0.9999851348		
<b>Combined Adjust. Factor</b>	0.9999060340		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>The station is located at the southwest corner of the junction of highways 41 and 380 at Billingsleys corner southwest of Horatio. 184 feet south of the center of hwy-380, 78.7 feet west of the center of hwy-41 and 2 feet WNW of a witness post. The station mark is a 2 1/2 in. cap stamped "410008 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410008A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Little River	<b>Route</b> 41	<b>Job Number:</b> 030415
---------------------------	-------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	539,679.4637				
<b>Easting (M)</b>	177,114.9339				
<b>Elevation (M)*</b>	95.693				
<b>Northing (SFT)</b>	1,770,598.3738				
<b>Easting (SFT)</b>	581,084.5790				
<b>Elevation (SFT)*</b>	313.954				

  

<b>Convergence Angle</b>	-1	20	56.3457305
<b>Scale Factor</b>	0.999921111		
<b>Elevation Adjust. Factor</b>	0.9999849828		
<b>Combined Adjust. Factor</b>	0.9999060950		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 41 and 380 southwest of Horatio go south on hwy-41 for 0.40 miles to the station on the left at the end of a guard rail. 68.9 ft. northeast of a bridge corner, 25.6 ft. east of the center of hwy-41 and 2 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "410008A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>Comments</b> </div> <div style="border: 1px solid black; padding: 5px;">             ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.           </div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410009	<b>Date Monumented</b> 4/29/2019	<b>Monumented By</b> ARDOT	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030531
--------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	503,562.5275	0.0020			
<b>Easting (M)</b>	210,628.4754	0.0020			
<b>Elevation (M)*</b>	89.998	0.0006			
<b>Northing (SFT)</b>	1,652,104.7256				
<b>Easting (SFT)</b>	691,036.9230				
<b>Elevation (SFT)*</b>	295.269				

  

<b>Convergence Angle</b>	-1	8	30.6641693
<b>Scale Factor</b>	0.999949256		
<b>Elevation Adjust. Factor</b>	0.9999858765		
<b>Combined Adjust. Factor</b>	0.9999351332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4'X5' CONC. DI IN MEDIAN	302	44.70	146.7
<b>MK # 2</b>	C/L OF HWY 71/59 N BND	240	17.00	55.8
<b>MK # 3</b>	C/L OF HWY 71/59 S BND	65	8.00	26.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input type="text" value="ARGS"/> <b>Ref Mon # 2</b> <input type="text" value="ARHP"/> <b>Ref Mon # 3</b> <input type="text" value="TXCR"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019</td> </tr> </table>	Comments	Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019
Comments			
Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019			

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID 12B

**Latitude**    33    35    0.1790880

**Longitude**    94    2    24.5284440

**Ellipsoid Height (M):**    62.960    0.0070

**Geoid Height (M):**    -27.030

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I30, GO NORTH ON HWY 71/59 FROM THE INTERSECTION OF HWY 71/59 AND I30 FOR 8.8 MILES TO THE STATION I30 FOR 9.1 MILES TO THE STATION ON THE LEFT. THE POINT IS A 2' ALUMINUM CAP STAMPED "2019 2019 410009" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 11.0 FEET SOUTH WEST OF A WITNESS POST, IN THE MEDIAN BETWEEN THE SOUTH BOUND AND THE NORTH BOUND LANES OF HWY 71/59.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 410009A	<b>Date Monumented</b> 4/29/2019	<b>Monumented By</b> ARDOT	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 030531
---------------------------	-------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	503,316.5144	0.0030			
<b>Easting (M)</b>	210,856.1774	0.0030			
<b>Elevation (M)*</b>	92.140	0.0007			
<b>Northing (SFT)</b>	1,651,297.5977				
<b>Easting (SFT)</b>	691,783.9754				
<b>Elevation (SFT)*</b>	302.294				

  

<b>Convergence Angle</b>	-1	8	25.6164958
<b>Scale Factor</b>	0.999949553		
<b>Elevation Adjust. Factor</b>	0.9999855405		
<b>Combined Adjust. Factor</b>	0.9999350942		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	P.P. #169	186	31.90	104.7		
MK # 2	P.P. #68873	292	22.60	74.1		
MK # 3	TELEPHONE BOX	255	11.80	38.7		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARGS"/> <b>Ref Mon # 2</b> <input type="text" value="ARHP"/> <b>Ref Mon # 3</b> <input type="text" value="TXCR"/>	Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420001	<b>Date Monumented</b> 2/17/1994	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 217	<b>Job Number:</b> R40099
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	86,545.6761				
<b>Easting (M)</b>	231,638.2190				
<b>Elevation (M)*</b>	162.462				
<b>Northing (SFT)</b>	283,941.9390				
<b>Easting (SFT)</b>	759,966.3902				
<b>Elevation (SFT)*</b>	533.011				

  

<b>Convergence Angle</b>	-1	4	28.4960346
<b>Scale Factor</b>	0.999971535		
<b>Elevation Adjust. Factor</b>	0.9999745051		
<b>Combined Adjust. Factor</b>	0.9999460408		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	337	9.85	32.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> Q-299	
<b>Ref Mon # 3</b> NONE	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	5	57.1279812
<b>Longitude</b>	93	50	48.0526404
<b>Ellipsoid Height (M):</b>	131.761		
<b>Geoid Height (M):</b>	-30.701		

  

Location Description
<p>FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.14 KM (5.68 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS NORTH NORTHEAST OF THE CENTERLINE OF HWY. 217, 30.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 1.76 METERS SOUTH SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420001A	<b>Date Monumented</b> 2/17/1994	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 217	<b>Job Number:</b> R40099
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	86,175.2491		
<b>Easting (M)</b>	231,994.9070		
<b>Elevation (M)*</b>	153.100		
<b>Northing (SFT)</b>	282,726.6298		
<b>Easting (SFT)</b>	761,136.6240		
<b>Elevation (SFT)*</b>	502.296		

  

<b>Convergence Angle</b>	-1	4	20.1429627
<b>Scale Factor</b>	0.999972018		
<b>Elevation Adjust. Factor</b>	0.9999759742		
<b>Combined Adjust. Factor</b>	0.9999479929		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MONUMENT	346	40.83	134.0
<b>MK # 2</b>	CONCRETE RIGHT OF WAY MONUMENT	20	24.66	80.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> Q-299	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 5 45.3264972
<b>Longitude</b>	93 50 33.6977952
<b>Ellipsoid Height (M):</b>	122.403
<b>Geoid Height (M):</b>	-30.697

Location Description
<p>FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.65 KM (5.99 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS SOUTH SOUTHWEST OF THE CENTERLINE OF HWY. 217 AND 1.145 METERS NORTH NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420002	<b>Date Monumented</b> 2/17/1994	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 109	<b>Job Number:</b> R40099
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	89,730.8751	
<b>Easting (M)</b>	235,010.4200	
<b>Elevation (M)*</b>	131.883	
<b>Northing (SFT)</b>	294,392.0461	
<b>Easting (SFT)</b>	771,030.0196	
<b>Elevation (SFT)*</b>	432.686	

  

<b>Convergence Angle</b>	-1	3	12.3751222
<b>Scale Factor</b>	0.999967372		
<b>Elevation Adjust. Factor</b>	0.9999793037		
<b>Combined Adjust. Factor</b>	0.9999466764		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOURTH GUARD RAIL POST FROM END OF BRIDGE	125	2.50	8.2
MK # 2	EIGHTH GUARD RAIL POST FROM END OF BRIDGE	333	2.40	7.9
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE <b>Ref Mon # 2</b> Q-299 <b>Ref Mon # 3</b> NONE	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 7 42.5024868
<b>Longitude</b>	93 48 37.2380220
<b>Ellipsoid Height (M):</b>	101.266
<b>Geoid Height (M):</b>	-30.617

  

Location Description
FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 2.84 KM (1.77 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 5.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 109, 5.30 METERS NORTH NORTHWEST OF THE BRIDGE END, 4.50 METERS NORTH NORTHWEST OF A WITNESS POST AND 0.57 METERS SOUTHWEST OF ANOTHER WITNESS POST ADJACENT TO THE GUARD RAIL. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "420002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420002A	<b>Date Monumented</b> 2/17/1994	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 109	<b>Job Number:</b> R40099
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	89,599.6341	
<b>Easting (M)</b>	235,363.6530	
<b>Elevation (M)*</b>	156.490	
<b>Northing (SFT)</b>	293,961.4662	
<b>Easting (SFT)</b>	772,188.9182	
<b>Elevation (SFT)*</b>	513.418	

  

<b>Convergence Angle</b>	-1	3	4.2023550
<b>Scale Factor</b>	0.999967527		
<b>Elevation Adjust. Factor</b>	0.9999754422		
<b>Combined Adjust. Factor</b>	0.9999429700		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE POST	330	8.33	27.3
<b>MK # 2</b>	NBC IN FENCE POST	300	18.68	61.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> Q-299	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 7 38.4549240
<b>Longitude</b>	93 48 23.1930324
<b>Ellipsoid Height (M):</b>	125.877
<b>Geoid Height (M):</b>	-30.613

Location Description
<p>FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 3.21 KM (1.99 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.975 METERS NORTHEAST OF THE CENTERLINE OF HWY. 109, 13.95 METERS EAST OF A TRACK ROAD, 6.10 METERS SOUTHWEST OF A FENCE LINE AND 0.60 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420002A" SET ON TOP OF A 3/4" REBAR 0.457 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420003	<b>Date Monumented</b> 4/23/1996	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 309	<b>Job Number:</b> 4818
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	104,924.4611	
<b>Easting (M)</b>	246,874.4190	
<b>Elevation (M)*</b>	168.577	
<b>Northing (SFT)</b>	344,239.6695	
<b>Easting (SFT)</b>	809,953.8230	
<b>Elevation (SFT)*</b>	553.073	

  

<b>Convergence Angle</b>	0	58	45.6986170
<b>Scale Factor</b>	0.999951146		
<b>Elevation Adjust. Factor</b>	0.9999735455		
<b>Combined Adjust. Factor</b>	0.9999246928		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	358	20.45	67.1
<b>MK # 2</b>	TWIN TRUNK CEDAR TREE	265	17.40	57.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OZARPORT	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> PINNACLE 1917	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420003A	<b>Date Monumented</b> 4/23/1996	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 309	<b>Job Number:</b> 4818
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	105,435.1961	
<b>Easting (M)</b>	246,873.7240	
<b>Elevation (M)*</b>	161.652	
<b>Northing (SFT)</b>	345,915.3059	
<b>Easting (SFT)</b>	809,951.5428	
<b>Elevation (SFT)*</b>	530.353	

  

<b>Convergence Angle</b>	0	58	45.9156170
<b>Scale Factor</b>	0.999950707		
<b>Elevation Adjust. Factor</b>	0.9999746322		
<b>Combined Adjust. Factor</b>	0.9999253404		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 &amp; 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HWY-109 &amp; 309 FOR 1.61 KM. (1.0 ML) TO A "Y" JUNCTION, GO LEFT AND EASTERLY ON HWY-309 FOR 4.75 KM. (2.95 ML) TO THE STATION ON THE RIGHT. 9.50 METERS WEST OF THE CENTER OF HWY-309 AND 1.07 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	352	15.45	50.7
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    OZARPORT</p> <p>Ref Mon # 2    CLARPORT</p> <p>Ref Mon # 3    PINNACLE 1917</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE USING USC&amp;GS BENCH MARK # TT 14 WM 1958</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420004	<b>Date Monumented</b> 4/23/1996	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 109	<b>Job Number:</b> 4818, 004980
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	106,568.6515	0.0020
<b>Easting (M)</b>	242,613.0574	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	349,633.9841	
<b>Easting (SFT)</b>	795,973.0058	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	0	24.4612070
<b>Scale Factor</b>	0.999949818		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	16	53.2480116
<b>Longitude</b>	93	43	48.6687108
<b>Ellipsoid Height:</b>	99.966		
<b>Grid Northing (Meters)</b>	106,569.0031		
<b>Grid Easting (Meters)</b>	242,613.2510		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	116	17.00	55.8
<b>MK # 2</b>	COMBINATION POLE	167	5.20	17.1
<b>MK # 3</b>	COMBINATION POLE	358	31.50	103.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARHP (OZARPORT) <b>Ref Mon # 2</b> ARLR (CLARPORT) <b>Ref Mon # 3</b> ARFY, ARHR (PINNACLE 191)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED</td> </tr> </table>	Comments	OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED
Comments			
OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED			

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35 16 53.2364952
<b>Longitude</b>	93 43 48.6761268
<b>Ellipsoid Height (M):</b>	100.602 0.0050
<b>Geoid Height (M):</b>	-29.757 0.0050

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 AND 309 AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HIGHWAYS 109 & 309 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 11.90 METERS NORTH OF THE NORTH DRIVEWAY TO THE LOGAN COUNTY NURSING CENTER, 11.40 METERS SOUTH OF A GRAVEL DRIVE, 5.70 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.62 METERS EAST OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	420004A
<b>Geodetic Azimuth</b>	2 08 25.29491
<b>Grid Azimuth</b>	3 08 49.75021

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420004A	<b>Date Monumented</b> 4/23/1996	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 109	<b>Job Number:</b> 4818, 004980
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	107,068.0580 0.0020
<b>Easting (M)</b>	242,640.5168 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	351,272.4536	
<b>Easting (SFT)</b>	796,063.0955	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	0	24.0310218
<b>Scale Factor</b>	0.999949409		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	17	9.4666560
<b>Longitude</b>	93	43	47.9294436
<b>Ellipsoid Height:</b>	96.009		
<b>Grid Northing (Meters)</b>	107,068.4031		
<b>Grid Easting (Meters)</b>	242,640.7100		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	41	29.30	96.1
MK # 2	COMBINATION POLE	114	27.00	88.6
MK # 3	GUY POLE	175	20.00	65.6

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHP(OZARPORT) Ref Mon # 2    ARLR(CLARPORT) Ref Mon # 3    ARFY, ARHR (PINNACLE 191)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED</td> </tr> </table>	Comments	OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED
Comments			
OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED			

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35 17 9.4553484
<b>Longitude</b>	93 43 47.9368488
<b>Ellipsoid Height (M):</b>	96.652 0.0050
<b>Geoid Height (M):</b>	-29.752 0.0050

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HIGHWAY 109 & 309 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 25.55 METERS NORTH OF THE EXTENDED CENTERLINE OF KLEIN STREET, 5.60 METERS EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	420004
<b>Geodetic Azimuth</b>	182 08 25.72192
<b>Grid Azimuth</b>	183 08 49.75021

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420005	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 90,115.8481		<b>Latitude</b> 35 7 59.9953728
<b>Easting (M)</b> 243,619.8120		<b>Longitude</b> 93 42 57.4949664
<b>Elevation (M)*</b> 162.500		<b>Ellipsoid Height (M):</b> 132.705
		<b>Geoid Height (M):</b> -29.795

  

<b>Northing (SFT)</b> 295,655.0783		<b>Location Description</b>
<b>Easting (SFT)</b> 799,275.9999		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 8.05 KM (5.00 MI) TO THE JUNCTION OF LLOYD ROAD AND THE STATION ON THE RIGHT. THE STATION IS 32.207 METERS WEST-SOUTHWEST OF THE CENTER OF LLOYD ROAD, 16.418 METERS NORTH OF THE CENTER OF STATE HGIWAY 10 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&amp;GS BENCH MARK H 46 1934.420005 &amp; 420005A, 91750001 &amp; 750001A, 750009 &amp; 750009A, 750010 &amp; 750010A, 750011 &amp; 750011A, 750012 &amp; 750012A, 750013 &amp; 750013A</p>
<b>Elevation (SFT)*</b> 533.135		
<b>Convergence Angle</b> 0 59 54.6789344		
<b>Scale Factor</b> 0.999966706		
<b>Elevation Adjust. Factor</b> 0.9999744991		
<b>Combined Adjust. Factor</b> 0.9999412060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	340	20.79	68.2
MK # 2	COMBINATION POLE = TBM 901	107	45.99	150.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299 <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> 91750001	ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK H 46 1934.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420005A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	90,294.6670				
<b>Easting (M)</b>	243,244.4090				
<b>Elevation (M)*</b>	163.813				
<b>Northing (SFT)</b>	296,241.7533				
<b>Easting (SFT)</b>	798,044.3652				
<b>Elevation (SFT)*</b>	537.443				

  

<b>Convergence Angle</b>	-1	0	3.3782933
<b>Scale Factor</b>	0.999966494		
<b>Elevation Adjust. Factor</b>	0.9999742931		
<b>Combined Adjust. Factor</b>	0.9999407879		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	348	23.97	78.6
<b>MK # 2</b>	EAST END OF A 0.457 METER CMP	320	33.31	109.3
<b>MK # 3</b>	WEST END OF A 0.381 METER CMP	103	33.43	109.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 8 5.5846500
<b>Longitude</b>	93 43 12.4449096
<b>Ellipsoid Height (M):</b>	134.012
<b>Geoid Height (M):</b>	-29.801

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 8.37 KM (5.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.919 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.939 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	420005
<b>Geodetic Azimuth</b>	114 28 09.58604
<b>Grid Azimuth</b>	115 28 12.91646

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420006	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 10	<b>Job Number:</b> 040246
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,198.5641	
<b>Easting (M)</b>	219,308.8360	
<b>Elevation (M)*</b>	175.792	
<b>Northing (SFT)</b>	302,488.1224	
<b>Easting (SFT)</b>	719,515.7394	
<b>Elevation (SFT)*</b>	576.744	

  

<b>Convergence Angle</b>	-1	9	14.3334826
<b>Scale Factor</b>	0.999964740		
<b>Elevation Adjust. Factor</b>	0.9999724133		
<b>Combined Adjust. Factor</b>	0.9999371542		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.96 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.831 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	4	21.98	72.1
MK # 2	GAS METER	221	5.36	17.6
MK # 3	TELEPHONE JUNCTION BOX	246	14.54	47.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD FS2 <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> Q 299	Elevations based on 3 wire from NGS point V 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420006A	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 10	<b>Job Number:</b> 040246
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,092.2691	
<b>Easting (M)</b>	219,853.2320	
<b>Elevation (M)*</b>	165.883	
<b>Northing (SFT)</b>	302,139.3862	
<b>Easting (SFT)</b>	721,301.8120	
<b>Elevation (SFT)*</b>	544.234	

  

<b>Convergence Angle</b>	-1	9	1.7713890
<b>Scale Factor</b>	0.999964853		
<b>Elevation Adjust. Factor</b>	0.9999739682		
<b>Combined Adjust. Factor</b>	0.9999388221		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	90	18.65	61.2
<b>MK # 2</b>	POWER POLE	180	22.65	74.3
<b>MK # 3</b>	TELEPHONE POLE	283	27.10	88.9

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD FS2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Q 299</td> </tr> </table>	Ref Mon # 1	AHTD FS2	Ref Mon # 2	OZARPORT	Ref Mon # 3	Q 299	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD FS2						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	Q 299						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 8 49.6567788
<b>Longitude</b>	93 58 37.6793184
<b>Ellipsoid Height (M):</b>	135.786
<b>Geoid Height (M):</b>	-30.097

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS WEST OF THE CENTER OF A PAVED DRIVE, 9.57 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.13 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	420006
<b>Geodetic Azimuth</b>	279 53 51.55731
<b>Grid Azimuth</b>	281 02 53.39581

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420007	<b>Date Monumented</b> 6/25/2001	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 309	<b>Job Number:</b> 040347
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,462.9031	
<b>Easting (M)</b>	238,950.3630	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	382,095.3746	
<b>Easting (SFT)</b>	783,956.3159	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	52.8924198
<b>Scale Factor</b>	0.999942886		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 288 AND 309, LOCATED IN ROSEVILLE, GO SOUTH ON STATE HIGHWAY 309 FOR 1.416 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 17.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 309, AND 0.675 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 759.139 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CONCRETE HEAD WALL	288	16.45	54.0
MK # 2	METAL GATE POST	260	6.80	22.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="CLARKPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="OZARPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="240006"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420007A	<b>Date Monumented</b> 6/25/2001	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 309	<b>Job Number:</b> 040347
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	117,208.0821	
<b>Easting (M)</b>	238,805.7340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	384,540.1827	
<b>Easting (SFT)</b>	783,481.8123	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	56.5355381
<b>Scale Factor</b>	0.999942458		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL IN LINE BRACE POST	350	9.20	30.2
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	420007
<b>Geodetic Azimuth</b>	167 59 02
<b>Grid Azimuth</b>	169 00 58

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARKPORT	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 240006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420008	<b>Date Monumented</b> 12/19/2006	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 22	<b>Job Number:</b> 040472,004980
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,810.7451	
<b>Easting (M)</b>	232,434.8920	
<b>Elevation (M)*</b>	131.562	
<b>Northing (SFT)</b>	356,989.9195	
<b>Easting (SFT)</b>	762,580.1415	
<b>Elevation (SFT)*</b>	431.632	

  

<b>Convergence Angle</b>	-1	4	19.7670463
<b>Scale Factor</b>	0.999948171		
<b>Elevation Adjust. Factor</b>	0.9999793541		
<b>Combined Adjust. Factor</b>	0.9999275262		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	137	6.79	22.3
<b>MK # 2</b>	Wooden fence post	176	5.85	19.2
<b>MK # 3</b>	Gas meter	92	28.04	92.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> OKHV <b>Ref Mon # 2</b> Ozarport <b>Ref Mon # 3</b> ARLR	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

  

Location Description	
To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 1.20 miles to the station on the right. 32 feet west of a gravel drive to a brick house, 59 feet south of the center of Hwy-22 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420008 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420008A	<b>Date Monumented</b> 12/19/2006	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 22	<b>Job Number:</b> 040472,004980
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,942.5321	
<b>Easting (M)</b>	231,832.5000	
<b>Elevation (M)*</b>	120.506	
<b>Northing (SFT)</b>	357,422.2907	
<b>Easting (SFT)</b>	760,603.7938	
<b>Elevation (SFT)*</b>	395.360	

  

<b>Convergence Angle</b>	-1	4	33.6965509
<b>Scale Factor</b>	0.999948078		
<b>Elevation Adjust. Factor</b>	0.9999810891		
<b>Combined Adjust. Factor</b>	0.9999291680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Metal fence corner post	219	11.64	38.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> OKHV <b>Ref Mon # 2</b> Ozarport <b>Ref Mon # 3</b> ARLR	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420009	<b>Date Monumented</b> 12/19/2006	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 22	<b>Job Number:</b> 040472
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	108,421.2421				
<b>Easting (M)</b>	236,210.8100				
<b>Elevation (M)*</b>	123.442				
<b>Northing (SFT)</b>	355,712.0251				
<b>Easting (SFT)</b>	774,968.2991				
<b>Elevation (SFT)*</b>	404.993				

  

<b>Convergence Angle</b>	-1	2	52.6464598
<b>Scale Factor</b>	0.999948420		
<b>Elevation Adjust. Factor</b>	0.9999806283		
<b>Combined Adjust. Factor</b>	0.9999290493		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Wood corner post	109	1.82	6.0
<b>MK # 2</b>	Railroad iron post	14	3.69	12.1
<b>MK # 3</b>	East end of a headwall	264	32.19	105.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> OKHV <b>Ref Mon # 2</b> Ozarport <b>Ref Mon # 3</b> ARLR	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

  

Location Description	
To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.40 miles to the station on the right at the top of the ditch bank on the south side of the ditch. 72 feet south of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 420009A	<b>Date Monumented</b> 12/19/2006	<b>Monumented By</b> AHTD	<b>County</b> LOGAN	<b>Route</b> 22	<b>Job Number:</b> 040472
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	108,467.9381				
<b>Easting (M)</b>	236,787.0960				
<b>Elevation (M)*</b>	129.579				
<b>Northing (SFT)</b>	355,865.2269				
<b>Easting (SFT)</b>	776,858.9975				
<b>Elevation (SFT)*</b>	425.126				

  

<b>Convergence Angle</b>	-1	2	39.3950937
<b>Scale Factor</b>	0.999948375		
<b>Elevation Adjust. Factor</b>	0.9999796653		
<b>Combined Adjust. Factor</b>	0.9999280413		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.80 miles to the station on the left 55.4 feet north of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
<b>MK # 1</b>	Water meter		79	9.14	30.0	
<b>MK # 2</b>	East end of a culvert		133	4.57	15.0	
<b>MK # 3</b>	Power pole		269	30.97	101.6	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    OKHV</p> <p><b>Ref Mon # 2</b>    Ozarport</p> <p><b>Ref Mon # 3</b>    ARLR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430001	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 48,061229,061261,061383,06
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 68,249.1100		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 394,175.5197		<b>Latitude</b> 34 56 54.5737499
<b>Elevation (M)*</b> 90.613		<b>Longitude</b> 92 3 49.5485798
<b>Northing (SFT)</b> 223,913.9551		<b>Ellipsoid Height (M):</b> 63.539
<b>Easting (SFT)</b> 1,293,224.1842		<b>Geoid Height (M):</b> -27.068
<b>Elevation (SFT)*</b> 297.287		

  

<b>Convergence Angle</b> 0 2 13.5741185	<b>Location Description</b>
<b>Scale Factor</b> 0.999997058	<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-321 AND HWY-367 ABOUT 8.0 KM. NORTH OF JACKSONVILLE, GO NORTH ON HWY-5 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE RIGHT NEAR THE SOUTHEAST END OF THE HWY-67-167 OVERPASS. 7.70 METERS NORTHEAST OF THE CENTER OF HWY-5, 1.50 METERS EAST OF THE SOUTHEAST END OF THE BRIDGE AND 0.83 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430001 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999857800	
<b>Combined Adjust. Factor</b> 0.9999828380	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b> NAD 83 (1986)	<b>Latitude</b> 34 56 54.5929332	<b>Longitude</b> 92 3 49.5412128		
<b>Ellipsoid Height:</b> 62.770	<b>Grid Northing (Meters)</b> 68,249.7011	<b>Grid Easting (Meters)</b> 394,175.7070		

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	"X" CUT IN SOUTHEAST END OF BRIDGE	287	2.15	7.1	<b>AZ Mark Station</b> 430001A
MK # 2	NBC IN WOODEN GUARD RAIL POST	216	0.85	2.8	<b>Geodetic Azimuth</b> 235 55 14
MK # 3	NBC IN WOODEN GUARD RAIL POST	151	4.06	13.3	<b>Grid Azimuth</b> 235 57 28

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR	<p>PREVIOUS ELEVATION (90.651m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.</p>
<b>Ref Mon # 2</b> 430017A, 430014, 430014A	
<b>Ref Mon # 3</b> 430016, 430016A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430001A	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> N/A	<b>Job Number:</b> 001748,061229,061261,061383
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	67,962.4730	
<b>Easting (M)</b>	393,751.2390	
<b>Elevation (M)*</b>	92.257	
<b>Northing (SFT)</b>	222,973.5468	
<b>Easting (SFT)</b>	1,291,832.1900	
<b>Elevation (SFT)*</b>	302.680	

  

<b>Convergence Angle</b>	0	2	23.2996722
<b>Scale Factor</b>	0.999997556		
<b>Elevation Adjust. Factor</b>	0.9999855221		
<b>Combined Adjust. Factor</b>	0.9999830781		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	56	45.2825016
<b>Longitude</b>	92	4	6.2543820
<b>Ellipsoid Height:</b>	64.403		
<b>Grid Northing (Meters)</b>	67,963.0711		
<b>Grid Easting (Meters)</b>	393,751.4340		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-321 AND HWY-367 ABOUT 8.0 KM. NORTH OF JACKSONVILLE, GO NORTH ON HWY-5 FOR 0.56 KM. (0.35 MI.) TO A PAVED ACCESS ROAD ON THE LEFT, GO LEFT ON THE ACCESS ROAD AND CONTINUE AHEAD SOUTHERLY FOR 0.56 KM. ( 0.35 MI.) TO THE STATION ON THE LEFT JUST OVER THE GUARD RAIL. 32.11 METERS NORTHWEST OF THE WEST EDGE OF THE CONCRETE SOUTH BOUND LANE OF HWY-67-167, 6.06 METERS SOUTHEAST OF THE CENTER OF THE ACCESS ROAD AND 0.54 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430001A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	250		1.99	6.5
MK # 2	COMBINATION POLE	289		22.90	75.1
MK # 3	MAN HOLE	316		18.46	60.6

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>PREVIOUS ELEVATION (92.281m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB #      A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430002	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 061085, 060906
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	72,805.0788 0.0020
<b>Easting (M)</b>	393,464.0824 0.0020
<b>Elevation (M)*</b>	135.128
<b>Northing (SFT)</b>	238,861.3294
<b>Easting (SFT)</b>	1,290,890.0770
<b>Elevation (SFT)*</b>	443.332

  

<b>Convergence Angle</b>	0 2 29.9656295
<b>Scale Factor</b>	0.999989426
<b>Elevation Adjust. Factor</b>	0.9999787945
<b>Combined Adjust. Factor</b>	0.9999682207

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	59	22.3991988
<b>Longitude</b>	92	4	17.7186108
<b>Ellipsoid Height:</b>	107.804		
<b>Grid Northing (Meters)</b>	72,805.0570		
<b>Grid Easting (Meters)</b>	393,464.0560		

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-89 ABOUT 5.0 KM. WEST OF CABOT, GO NORTH ON HWY-5 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT ON TOP OF A CUT BANK ABOUT 6.0 METERS ABOVE HWY-5. 14.03 METERS WEST OF THE CENTER OF HWY-5, 12.20 METERS EAST OF THE CENTER OF A TRACK ROAD THAT IS USED TO ACCESS THE STATION AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430002 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARBT	NAD 83 (1986) LAT 34 59 22.418443 (N) LON 92 04 17.711281 (W) *****SUPERCEDED GEOID HT. = -27.166m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER ***** *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC *****
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, ARSC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430002A	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 061085, 060906
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	73,444.2395    0.0020
<b>Easting (M)</b>	393,511.0760    0.0020
<b>Elevation (M)*</b>	129.765

  

<b>Northing (SFT)</b>	240,958.3091	
<b>Easting (SFT)</b>	1,291,044.2552	
<b>Elevation (SFT)*</b>	425.737	

  

<b>Convergence Angle</b>	0   2   28.8979561
<b>Scale Factor</b>	0.999988396
<b>Elevation Adjust. Factor</b>	0.9999796361
<b>Combined Adjust. Factor</b>	0.9999680323

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	34   59   43.1411712
<b>Longitude</b>	92   4   15.8839428
<b>Ellipsoid Height:</b>	102.466
<b>Grid Northing (Meters)</b>	73,444.2170
<b>Grid Easting (Meters)</b>	393,511.0460

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-89 ABOUT 5.0 KM. WEST OF CABOT, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT. 18.10 METERS NORTH OF THE CENTER OF "192 ARKY COVE ROAD", 13.49 METERS EAST OF THE CENTER OF HWY-5, 8.36 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY AND 1.56 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	97	1.74	5.7
<b>MK # 2</b>	GUY POLE	281	28.49	93.5
<b>MK # 3</b>	COMBINATION POLE	2	28.03	92.0

  

<b>AZ Mark Station</b>	430002
<b>Geodetic Azimuth</b>	184 09 48
<b>Grid Azimuth</b>	184 12 17

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARBT</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    ARPB, ARSC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>NAD 83 (1986) LAT 34 59 43.160320 (N) LON 92 04 15.876474 (W)              *****SUPERCEDED GEOID HT. = -27.178m &amp; SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 &amp; BUTLER *****              *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR &amp; ARSC *****</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430003	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 001748, 060906
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	79,389.0893	0.0020	
<b>Easting (M)</b>	392,333.6018	0.0020	
<b>Elevation (M)*</b>	92.178		
<b>Northing (SFT)</b>	260,462.3705		
<b>Easting (SFT)</b>	1,287,181.1586		
<b>Elevation (SFT)*</b>	302.421		

  

<b>Convergence Angle</b>	0	2	56.0332494
<b>Scale Factor</b>	0.999979294		
<b>Elevation Adjust. Factor</b>	0.9999855345		
<b>Combined Adjust. Factor</b>	0.9999648288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	2	56.0408136
<b>Longitude</b>	92	5	2.5082844
<b>Ellipsoid Height:</b>	64.128		
<b>Grid Northing (Meters)</b>	79,389.6261		
<b>Grid Easting (Meters)</b>	392,333.7740		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	GUY POLE		153		39.99	131.2
MK # 2	TELEPHONE JUNCTION BOX		218		33.10	108.6
MK # 3	GUY POLE		298		30.15	98.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARPB, ARSC	SUPERCEDED GEOID HT. = -28.065m SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001 *****UPDATE D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    2    56.0233896
<b>Longitude</b>	92    5    2.5150596
<b>Ellipsoid Height (M):</b>	64.729    0.0080
<b>Geoid Height (M):</b>	-27.418    0.0080

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 14.29 METERS NORTH OF THE CENTER OF A GRAVEL ENTRANCE TO A CAR WASH, 11.85 METERS EAST OF THE CENTER OF HWY-5 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430003A	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 001748, 060906
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	79,876.8411    0.0020
<b>Easting (M)</b>	392,261.1990    0.0030
<b>Elevation (M)*</b>	87.401

  

<b>Northing (SFT)</b>	262,062.6028	
<b>Easting (SFT)</b>	1,286,943.6171	
<b>Elevation (SFT)*</b>	286.748	

  

<b>Convergence Angle</b>	0    2    57.7053859
<b>Scale Factor</b>	0.999978586
<b>Elevation Adjust. Factor</b>	0.9999862841
<b>Combined Adjust. Factor</b>	0.9999648704

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	35    3    11.8668060
<b>Longitude</b>	92    5    5.3817180
<b>Ellipsoid Height:</b>	59.352
<b>Grid Northing (Meters)</b>	79,877.3891
<b>Grid Easting (Meters)</b>	392,261.3750

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT. 41.8 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.10 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.97 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	343	4.85	15.9
MK # 2	6" (0.15 M) CEDAR TREE	147	20.10	65.9
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARPB, ARSC	SUPERCEDED GEOID HT. = -28.072m SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001 *****UPDATE D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430004	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> N/A	<b>Job Number:</b> R60121
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,323.0979	
<b>Easting (M)</b>	402,736.3930	
<b>Elevation (M)*</b>	70.029	
<b>Northing (SFT)</b>	1,995,806.6970	
<b>Easting (SFT)</b>	1,321,310.9827	
<b>Elevation (SFT)*</b>	229.753	

  

<b>Convergence Angle</b>	0	1	0.0687385
<b>Scale Factor</b>	0.999958060		
<b>Elevation Adjust. Factor</b>	0.9999890103		
<b>Combined Adjust. Factor</b>	0.9999470707		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256,15 AND U.S. HIGHWAY 165 IN ENGLAND GO NORTH ON U.S. HWY-165 FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH "HAYWOOD ST." GO LEFT AND WEST ON "HAYWOOD ST." FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT ON THE OLD RAILROAD RIGHT OF WAY. 47.15 METERS SOUTHWEST OF THE CENTER OF HWY-165 (MAIN STREET), 42.1 METERS NORTHEAST OF THE CENTER OF "ALLIS ST.", 13.90 METERS NORTH-NORTHWEST OF "HAYWOOD ST." AND 3.27 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PARKING SIGN	164	3.35	11.0
MK # 2	COMBINATION POLE	238	35.70	117.1
MK # 3	LIGHT POLE	53	40.35	132.4

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ADAMS 2	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&amp;GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.</p>
Ref Mon # 2	STUTPORT	
Ref Mon # 3	R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430004A	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> N/A	<b>Job Number:</b> R60121
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	607,778.8849	
<b>Easting (M)</b>	402,937.7400	
<b>Elevation (M)*</b>	69.515	
<b>Northing (SFT)</b>	1,994,021.2249	
<b>Easting (SFT)</b>	1,321,971.5687	
<b>Elevation (SFT)*</b>	228.067	

  

<b>Convergence Angle</b>	0	1	4.4849324
<b>Scale Factor</b>	0.999957302		
<b>Elevation Adjust. Factor</b>	0.9999890909		
<b>Combined Adjust. Factor</b>	0.9999463934		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRICK HOUSE	239	26.75	87.8
MK # 2	LIGHT POLE	287	27.35	89.7
MK # 3	GUY POLE	313	20.70	67.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> STUTPORT <b>Ref Mon # 3</b> R 107	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256,15 AND U.S. HIGHWAY 165 IN ENGLAND GO WEST ON HWY-256 FOR 0.16 KM. (0.10 MI.) TO THE JUNCTION WITH "ALLIS ST.", TURN LEFT AND SOUTH ON "ALLIS ST." AND GO 0.40 KM. (0.25 MI.) TO THE JUNCTION WITH "TAYLOR ST." AND THE STATION JUST SOUTHEAST OF THE JUNCTION. 19.2 METERS SOUTHWEST OF THE CENTER OF THE OLD RAILROAD BED, 12.6 METERS NORTHEAST OF THE CENTER OF "ALLIS ST.", 10.3 METERS SOUTH-SOUTHEAST OF THE CENTER OF "TAYLOR ST." AND 0.50 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    32    23.9696376
<b>Longitude</b>	91    58    4.7846964
<b>Ellipsoid Height (M):</b>	42.491
<b>Geoid Height (M):</b>	-27.024

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430005	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,532.4009	
<b>Easting (M)</b>	408,038.6090	
<b>Elevation (M)*</b>	68.143	
<b>Northing (SFT)</b>	1,996,493.3853	
<b>Easting (SFT)</b>	1,338,706.6697	
<b>Elevation (SFT)*</b>	223.566	

  

<b>Convergence Angle</b>	0	2	56.4657923
<b>Scale Factor</b>	0.999958349		
<b>Elevation Adjust. Factor</b>	0.9999893063		
<b>Combined Adjust. Factor</b>	0.9999476557		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	265	7.05	23.1
<b>MK # 2</b>	10 INCH ELM TREE	152	23.90	78.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430005A	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,543.4279	
<b>Easting (M)</b>	408,565.1350	
<b>Elevation (M)*</b>	66.936	
<b>Northing (SFT)</b>	1,996,529.5630	
<b>Easting (SFT)</b>	1,340,434.1137	
<b>Elevation (SFT)*</b>	219.606	

  

<b>Convergence Angle</b>	0	3	8.0244525
<b>Scale Factor</b>	0.999958364		
<b>Elevation Adjust. Factor</b>	0.9999894957		
<b>Combined Adjust. Factor</b>	0.9999478601		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	103	1.05	3.4
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	181	27.30	89.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430006	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	608,396.9969				
<b>Easting (M)</b>	413,155.6710				
<b>Elevation (M)*</b>	63.559				
<b>Northing (SFT)</b>	1,996,049.1473				
<b>Easting (SFT)</b>	1,355,494.8973				
<b>Elevation (SFT)*</b>	208.526				

  

<b>Convergence Angle</b>	0	4	48.7926868
<b>Scale Factor</b>	0.999958151		
<b>Elevation Adjust. Factor</b>	0.9999900256		
<b>Combined Adjust. Factor</b>	0.9999481770		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/TBM-919	324	35.28	115.8
<b>MK # 2</b>	EAST END OF METAL PIPE	294	12.80	42.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430006A	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	608,370.2328		
<b>Easting (M)</b>	413,877.7730		
<b>Elevation (M)*</b>	63.214		
<b>Northing (SFT)</b>	1,995,961.3388		
<b>Easting (SFT)</b>	1,357,863.9936		
<b>Elevation (SFT)*</b>	207.395		

  

<b>Convergence Angle</b>	0	5	4.6433473
<b>Scale Factor</b>	0.999958112		
<b>Elevation Adjust. Factor</b>	0.9999900798		
<b>Combined Adjust. Factor</b>	0.9999481922		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	89	28.05	92.0
<b>MK # 2</b>	SQUARE CONCRETE ROAD SIGN	321	4.65	15.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430007	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,125.1919	
<b>Easting (M)</b>	417,294.1100	
<b>Elevation (M)*</b>	62.752	
<b>Northing (SFT)</b>	1,995,157.4004	
<b>Easting (SFT)</b>	1,369,072.4259	
<b>Elevation (SFT)*</b>	205.879	

  

<b>Convergence Angle</b>	0	6	19.6283488
<b>Scale Factor</b>	0.999957762		
<b>Elevation Adjust. Factor</b>	0.9999901523		
<b>Combined Adjust. Factor</b>	0.9999479147		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	216	56.06	183.9
<b>MK # 2</b>	SOUTHEAST CORNER OF METAL AIRPLANE HANGER	286	27.21	89.3
<b>MK # 3</b>	NORTHEAST CORNER OF AIRPLANE HANGAR	318	41.64	136.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 34.7069688
<b>Longitude</b>	91 48 41.7175884
<b>Ellipsoid Height (M):</b>	35.663
<b>Geoid Height (M):</b>	-27.089

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 5.15 KM. (3.20 MI.) TO THE STATION ON THE RIGHT NEAR THE WEST END OF A RUNWAY. 60.84 METERS NORTH OF THE CENTER OF U.S. 165, 30.3 METERS NORTH OF THE CENTER OF A PAVED RUNWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430007A	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 165	<b>Job Number:</b> R60121
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,104.3639	
<b>Easting (M)</b>	417,956.3350	
<b>Elevation (M)*</b>	61.957	
<b>Northing (SFT)</b>	1,995,089.0672	
<b>Easting (SFT)</b>	1,371,245.0757	
<b>Elevation (SFT)*</b>	203.271	

  

<b>Convergence Angle</b>	0	6	34.1641448
<b>Scale Factor</b>	0.999957731		
<b>Elevation Adjust. Factor</b>	0.9999902770		
<b>Combined Adjust. Factor</b>	0.9999480084		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 4.43 KM. (2.75 MI.) TO THE JUNCTION WITH A GRAVEL DRIVEWAY ON THE RIGHT AND THE STATION AT THE EAST END OF A GRASS RUNWAY. 59.24 METERS NORTH OF THE CENTER OF U.S. 165, 6.94 METERS WEST OF THE GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF CONCRETE PIPE	175	45.50	149.3
<b>MK # 2</b>	POWER POLE W/TBM-926	158	44.16	144.9
<b>MK # 3</b>	POWER POLE	15	38.28	125.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> STUTPORT <b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430008	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> R60121
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	607,297.3799	
<b>Easting (M)</b>	422,294.8170	
<b>Elevation (M)*</b>	60.529	
<b>Northing (SFT)</b>	1,992,441.4872	
<b>Easting (SFT)</b>	1,385,478.9121	
<b>Elevation (SFT)*</b>	198.586	

  

<b>Convergence Angle</b>	0	8	9.3569344
<b>Scale Factor</b>	0.999956602		
<b>Elevation Adjust. Factor</b>	0.9999905011		
<b>Combined Adjust. Factor</b>	0.9999471035		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	350	32.75	107.4
<b>MK # 2</b>	METAL DRAIN PIPE (CMP)	190	18.93	62.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430008A	<b>Date Monumented</b> 11/21/1996	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> R60121
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	606,793.8459	
<b>Easting (M)</b>	422,259.9630	
<b>Elevation (M)*</b>	61.087	
<b>Northing (SFT)</b>	1,990,789.4761	
<b>Easting (SFT)</b>	1,385,364.5619	
<b>Elevation (SFT)*</b>	200.416	

  

<b>Convergence Angle</b>	0	8	8.5657348
<b>Scale Factor</b>	0.999955913		
<b>Elevation Adjust. Factor</b>	0.9999904135		
<b>Combined Adjust. Factor</b>	0.9999463270		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF METAL DRAIN PIPE	95	2.80	9.2
<b>MK # 2</b>	SOUTH END OF METAL DRAIN PIPE	160	8.17	26.8
<b>MK # 3</b>	NORTHEAST CORNER OF WELL PUMP SHE	277	17.45	57.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.
<b>Ref Mon # 2</b> STUTPORT	
<b>Ref Mon # 3</b> R 107	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430009	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,418.7559	
<b>Easting (M)</b>	422,390.7850	
<b>Elevation (M)*</b>	61.129	
<b>Northing (SFT)</b>	2,015,805.5350	
<b>Easting (SFT)</b>	1,385,793.7671	
<b>Elevation (SFT)*</b>	200.554	

  

<b>Convergence Angle</b>	0	8	11.8360809
<b>Scale Factor</b>	0.999967013		
<b>Elevation Adjust. Factor</b>	0.9999904070		
<b>Combined Adjust. Factor</b>	0.9999574203		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 6.49 KM (4.03 MI) TO THE STATION ON THE RIGHT SET THE CENTER OF A ROAD ON TOP OF A LEVEE. THE STATION IS 27.19 METERS SOUTH THE CENTER OF A ROAD ON TOP OF AN EAST-WEST RUNNING LEVEE, 17.359 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 1.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	353	15.49	50.8
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 3    <input type="text" value="AHTD LR 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430009A	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	613,916.9029	
<b>Easting (M)</b>	422,384.2620	
<b>Elevation (M)*</b>	61.122	
<b>Northing (SFT)</b>	2,014,159.0389	
<b>Easting (SFT)</b>	1,385,772.3662	
<b>Elevation (SFT)*</b>	200.531	

  

<b>Convergence Angle</b>	0	8	11.6665201
<b>Scale Factor</b>	0.999966238		
<b>Elevation Adjust. Factor</b>	0.9999904081		
<b>Combined Adjust. Factor</b>	0.9999566464		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT SET IN THE CENTER OF A ROAD ON TOP OF A NORTH-SOUTH RINNING LEVEE. THE STATION IS 16.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 2.05 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 3 <input type="text" value="AHTD LR 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430010	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	617,481.0240	
<b>Easting (M)</b>	422,440.7100	
<b>Elevation (M)*</b>	62.567	
<b>Northing (SFT)</b>	2,025,852.3262	
<b>Easting (SFT)</b>	1,385,957.5627	
<b>Elevation (SFT)*</b>	205.272	

  

<b>Convergence Angle</b>	0	8	13.0935333
<b>Scale Factor</b>	0.999971876		
<b>Elevation Adjust. Factor</b>	0.9999901813		
<b>Combined Adjust. Factor</b>	0.9999620576		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 9.40 KM (5.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.07 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 13.02 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE ROAD, 1.44 METERS WEST OF THE CENTER OF A ROAD ON TOP OF A LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    ALMYPORT</p> <p>Ref Mon # 3    AHTD LR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430010A	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,874.6540	
<b>Easting (M)</b>	422,426.7970	
<b>Elevation (M)*</b>	62.185	
<b>Northing (SFT)</b>	2,023,862.9273	
<b>Easting (SFT)</b>	1,385,911.9165	
<b>Elevation (SFT)*</b>	204.019	

  

<b>Convergence Angle</b>	0	8	12.7559914
<b>Scale Factor</b>	0.999970895		
<b>Elevation Adjust. Factor</b>	0.9999902412		
<b>Combined Adjust. Factor</b>	0.9999611365		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE RIGHT SET WEST OF THE EXTENDED CENTER OF A EAST-WEST RUNNING LEVEE ROAD. THE STATION IS 18.35 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 2.00 METERS WEST OF THE CENTER OF A NORTH-SOUTH RUNNING LEVEE ROAD AND 1.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    ALMYPORT</p> <p>Ref Mon # 3    AHTD LR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430011	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	624,488.3750	
<b>Easting (M)</b>	422,521.7510	
<b>Elevation (M)*</b>	65.241	
<b>Northing (SFT)</b>	2,048,842.2770	
<b>Easting (SFT)</b>	1,386,223.4447	
<b>Elevation (SFT)*</b>	214.045	

  

<b>Convergence Angle</b>	0	8	15.2439450
<b>Scale Factor</b>	0.999983881		
<b>Elevation Adjust. Factor</b>	0.9999897617		
<b>Combined Adjust. Factor</b>	0.9999736428		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 15.93 KM (9.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	56	31.10	102.0
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/> <b>Ref Mon # 2</b> <input type="text" value="ALMYPORT"/> <b>Ref Mon # 3</b> <input type="text" value="AHTD LR 1"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430011A	<b>Date Monumented</b> 1/19/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 060778
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	625,087.3220	
<b>Easting (M)</b>	422,560.2350	
<b>Elevation (M)*</b>	67.594	
<b>Northing (SFT)</b>	2,050,807.3223	
<b>Easting (SFT)</b>	1,386,349.7043	
<b>Elevation (SFT)*</b>	221.765	

  

<b>Convergence Angle</b>	0	8	16.1218673
<b>Scale Factor</b>	0.999984963		
<b>Elevation Adjust. Factor</b>	0.9999893924		
<b>Combined Adjust. Factor</b>	0.9999743556		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	4	22.67	74.4
<b>MK # 2</b>	POWER POLE WITH METER	159	29.75	97.6
<b>MK # 3</b>	COMBINATION POLE	175	31.50	103.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="ALMYPORT"/>	
<b>Ref Mon # 3</b> <input type="text" value="AHTD LR 1"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 41 44.8113444
<b>Longitude</b>	91 45 13.5784836
<b>Ellipsoid Height (M):</b>	40.971
<b>Geoid Height (M):</b>	-26.623

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 16.53 KM (10.27 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011A 1999" SET ON TO OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430012	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 001748, 060906
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	77,011.5279	0.0020			
<b>Easting (M)</b>	393,626.6285	0.0020			
<b>Elevation (M)*</b>	125.004				
<b>Northing (SFT)</b>	252,661.9878				
<b>Easting (SFT)</b>	1,291,423.3637				
<b>Elevation (SFT)*</b>	410.117				

  

<b>Convergence Angle</b>	0	2	26.3044936
<b>Scale Factor</b>	0.999982830		
<b>Elevation Adjust. Factor</b>	0.9999803832		
<b>Combined Adjust. Factor</b>	0.9999632135		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	1	38.9217072
<b>Longitude</b>	92	4	11.4193956
<b>Ellipsoid Height:</b>	97.759		
<b>Grid Northing (Meters)</b>	77,012.0790		
<b>Grid Easting (Meters)</b>	393,626.7930		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.37 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.63 METERS EAST OF THE CENTER OF STATE HIGHWAY 5 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBT</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    ARPB, ARSC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>SUPERCEDED GEOID HT. = 27.245m  SUPERCEDED REF. MONUMENTS WERE 430002 &amp; 430003  *****UPDATE  D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT  CORS SITES ARBT, ARLR &amp; ARSC</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430012A	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		<b>Vertical Determined By:</b> LEVEL - Unkown Quality		
<b>Horizontal Datum</b> NAD 83 (1986)			<b>Elevation Datum:</b> NAVD 88		
<b>Northing (M)</b> 76,729.9391			<b>Geoid Datum:</b> 		
<b>Easting (M)</b> 393,437.7360			<b>Latitude</b> 35 1 29.7617916		
<b>Elevation (M)*</b> 114.823			<b>Longitude</b> 92 4 18.8694552		
<b>Northing (SFT)</b> 251,738.1419			<b>Ellipsoid Height (M):</b> 87.582		
<b>Easting (SFT)</b> 1,290,803.6389		<b>Geoid Height (M):</b> -27.241			
<b>Elevation (SFT)*</b> 376.715		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;"><b>Location Description</b></p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 3.88 KM (2.41 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 5 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </div>			
<b>Convergence Angle</b> 0 2 30.6359103					
<b>Scale Factor</b> 0.999983258					
<b>Elevation Adjust. Factor</b> 0.9999819809					
<b>Combined Adjust. Factor</b> 0.9999652392					

  

<b>SUPERCEDED CONTROL</b>					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					<b>AZ Mark Station</b> 430012
MK # 2	NONE					<b>Geodetic Azimuth</b> 33 47 00.694220
MK # 3	NONE					<b>Grid Azimuth</b> 33 49 31.300501

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    430002 Ref Mon # 2    430003 Ref Mon # 3	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430013	<b>Date Monumented</b> 11/14/2000	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 89	<b>Job Number:</b> 060897
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	51,185.8712	
<b>Easting (M)</b>	407,813.4400	
<b>Elevation (M)*</b>	72.330	
<b>Northing (SFT)</b>	167,932.3124	
<b>Easting (SFT)</b>	1,337,967.9277	
<b>Elevation (SFT)*</b>	237.303	

  

<b>Convergence Angle</b>	0	2	58.8480566
<b>Scale Factor</b>	1.000030155		
<b>Elevation Adjust. Factor</b>	0.9999886492		
<b>Combined Adjust. Factor</b>	1.0000188039		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIGHWAY 89 FOR 0.98 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.89 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 13.65 METERS NORTH OF THE CENTER OF A PAVED DRIVEWAY, 10.80 METERS WEST OF THE CENTER OF STATE HIGHWAY 89, 5.50 METERS SOUTHEAST OF A WATER METERS COVER AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	SOUTH END CMP	31	11.39	37.4		
MK # 2	NORTH END CMP	197	9.60	31.5		
MK # 3	END OF A PIPE FENCE	287	1.25	4.1		

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SEARPORT	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&amp;G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.</p>
Ref Mon # 2	PAGIS 1001	
Ref Mon # 3	ALMYPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430013A	<b>Date Monumented</b> 11/14/2000	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 89	<b>Job Number:</b> 060897
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	51,735.7370
<b>Easting (M)</b>	407,848.6619
<b>Elevation (M)*</b>	72.575
<b>Northing (SFT)</b>	169,736.3305
<b>Easting (SFT)</b>	1,338,083.4849
<b>Elevation (SFT)*</b>	238.106

  

<b>Convergence Angle</b>	0	2	59.6652419
<b>Scale Factor</b>	1.000028977		
<b>Elevation Adjust. Factor</b>	0.9999886107		
<b>Combined Adjust. Factor</b>	1.0000175874		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIGHWAY 89 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 89, 9.00 METERS SOUTH OF THE EXTENDED CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CMP	202	9.58	31.4
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEARPORT</p> <p>Ref Mon # 2    PAGIS 1001</p> <p>Ref Mon # 3    ALMYPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&amp;G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430014	<b>Date Monumented</b> 1/9/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 67	<b>Job Number:</b> 061072,061383
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 70,072.0351		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 395,659.7980		<b>Latitude</b> 34 57 53.7552108
<b>Elevation (M)*</b> 82.752		<b>Longitude</b> 92 2 51.0863784
<b>Northing (SFT)</b> 229,894.6685		<b>Ellipsoid Height (M):</b> 55.572
<b>Easting (SFT)</b> 1,298,093.8539		<b>Geoid Height (M):</b> -27.100
<b>Elevation (SFT)*</b> 271.495		

  

<b>Convergence Angle</b> 0 1 39.5550144	<b>Location Description</b>
<b>Scale Factor</b> 0.999993942	<p>TO REACH THE STATION FROM THE INTERSECTION OF U.S. STATE HIGHWAY 67 AND 89 (EXIT 19 ON 67), SOUTH WEST OF CABOT, GO SOUTH ON HIGHWAY 67 1.25 MILES TO THE STATION ON THE LEFT IN THE MEDIAN NORTH OF THE BRIDGE AND 6.15 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999870137	
<b>Combined Adjust. Factor</b> 0.9999809558	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH EAST OF SOUTH BOUND LANE BRI		6.15	20.2
MK # 2	NORTH WEST OF NORTH BOUND LANE BRI		6.55	21.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 AHTD LROC	<p>ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.</p>
Ref Mon # 2 480016, Butler	
Ref Mon # 3 Russport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430014A	<b>Date Monumented</b> 1/9/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 67	<b>Job Number:</b> 61072,061383,061509, 06137
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 70,639.1320		<b>Latitude</b> 34 58 12.1647540
<b>Easting (M)</b> 396,142.4990		<b>Longitude</b> 92 2 32.0683848
<b>Elevation (M)*</b> 84.849		<b>Ellipsoid Height (M):</b> 57.658
<b>Northing (SFT)</b> 231,755.2189		<b>Geoid Height (M):</b> -27.109
<b>Easting (SFT)</b> 1,299,677.5155		
<b>Elevation (SFT)*</b> 278.375		

  

<b>Convergence Angle</b> 0 1 28.4884605	<b>Location Description</b>  TO REACH THE STATION FROM U.S. STATE HIGHWAY 67 AND 89 (EXIT 19 ON 67) SOUTH WEST OF CABOT, GO SOUTH ON 67 0.80 MILE TO THE STATION ON THE LEFT NEXT TO THE EAST RIGHT OF WAY FENCE AND NORTH WEST 1.45 METERS FROM A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999992989	
<b>Elevation Adjust. Factor</b> 0.9999866846	
<b>Combined Adjust. Factor</b> 0.9999796737	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	AHTD TRAFFIC COUNTER BOX	242	24.10	79.1
<b>MK # 2</b>	POWER POLE	211	26.15	85.8
<b>MK # 3</b>	EDGE OF CONC ON NORTH BOUND LANE		24.75	81.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LROC	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
<b>Ref Mon # 2</b> 480016, Butler	
<b>Ref Mon # 3</b> Russport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430015	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 89	<b>Job Number:</b> 061085
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	71,434.8811	
<b>Easting (M)</b>	387,927.4750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	234,365.9391	
<b>Easting (SFT)</b>	1,272,725.3909	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	36.9599064
<b>Scale Factor</b>	0.999991678		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	138	8.90	29.2
<b>MK # 2</b>	POWER POLE WITH GUY	195	29.15	95.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LROC	ELEV DETERMINED IN JOB 061085
<b>Ref Mon # 2</b> AHTD MON 1	
<b>Ref Mon # 3</b> BUTLER	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430015A	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 89	<b>Job Number:</b> 061085
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	71,515.1251	
<b>Easting (M)</b>	387,378.8650	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	234,629.2063	
<b>Easting (SFT)</b>	1,270,925.4929	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	49.5483237
<b>Scale Factor</b>	0.999991546		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE AND TELEPHONE RIS	141	10.10	33.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LROC <b>Ref Mon # 2</b> AHTD MON 1 <b>Ref Mon # 3</b> BUTLER	ELEV DETERMINED IN JOB 061085   

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    34    58    40.3302864

**Longitude**    92    8    17.5919532

**Ellipsoid Height (M):**    85.068   

**Geoid Height (M):**    -27.180

  

**Location Description**

TO REACH THE STATION FROM U.S. STATE HIGHWAY 107 AND HIGHWAY 89, NORTH OF NORTH LITTLE ROCK, GO SOUTH ON HIGHWAY 89 0.30 MILES TO THE STATION ON THE RIGHT, SOUTH 6.45 METERS OF THE CENTER OF THE HIGHWAY, EAST 36.0 METERS OF A GRAVEL DRIVE AND 6.95 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430015A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430016	<b>Date Monumented</b> 8/6/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 67	<b>Job Number:</b> 061102,061383,061384
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	74,294.6711	
<b>Easting (M)</b>	400,542.7820	
<b>Elevation (M)*</b>	82.029	
<b>Northing (SFT)</b>	243,748.4334	
<b>Easting (SFT)</b>	1,314,114.1106	
<b>Elevation (SFT)*</b>	269.123	

  

<b>Convergence Angle</b>	0	0	12.4561157
<b>Scale Factor</b>	0.999987037		
<b>Elevation Adjust. Factor</b>	0.9999871272		
<b>Combined Adjust. Factor</b>	0.9999741644		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.4 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.80 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: BUTLER Ref Mon # 2: MEM2 CORS Ref Mon # 3: 430014	<b>Comments</b>  ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430016A	<b>Date Monumented</b> 8/6/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 67	<b>Job Number:</b> 061102,061383,061102, 06137
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 73,724.7720		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 399,829.1960		<b>Latitude</b> 34 59 52.3211892
<b>Elevation (M)*</b> 75.956		<b>Longitude</b> 92 0 6.7356576
<b>Northing (SFT)</b> 241,878.6895		<b>Ellipsoid Height (M):</b> 48.753
<b>Easting (SFT)</b> 1,311,772.9539		<b>Geoid Height (M):</b> -27.155
<b>Elevation (SFT)*</b> 249.200		

  

<b>Convergence Angle</b> 0 0 3.9194733	<b>Location Description</b>
<b>Scale Factor</b> 0.999987943	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.9 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.90 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999880801	
<b>Combined Adjust. Factor</b> 0.9999760233	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 CORS <b>Ref Mon # 3</b> 430014	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430017	<b>Date Monumented</b> 8/6/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 38	<b>Job Number:</b> 061102,061383,061384,061102
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 71,974.6921		<b>Geoid Datum:</b> Geoid 09
<b>Easting (M)</b> 400,346.6790		<b>Latitude</b> 34 58 55.5305736
<b>Elevation (M)*</b> 78.991		<b>Longitude</b> 91 59 46.3313724
<b>Northing (SFT)</b> 236,136.9690		<b>Ellipsoid Height (M):</b> 51.805
<b>Easting (SFT)</b> 1,313,470.7294		<b>Geoid Height (M):</b> -27.119
<b>Elevation (SFT)*</b> 259.156		

  

<b>Convergence Angle</b> 0 0 7.9537625	<b>Location Description</b>
<b>Scale Factor</b> 0.999990776	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND HIGHWAY 89, IN CABOT, GO NORTH ON 38 1.3 MILE TO THE STATION ON THE LEFT, IN FRONT OF MIDDLE SCHOOL NORTH, NORTH 12.60 OF THE CENTERLINE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430017 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999876039	
<b>Combined Adjust. Factor</b> 0.9999783800	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	265	15.45	50.7
MK # 2	GUY	287	16.25	53.3
MK # 3	NORTHEAST CORNER OF MIDDLE SCHOOL SITE	275	29.30	96.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 CORS <b>Ref Mon # 3</b> 430014	ELEV. ESTABLISHED BY DIGITAL LEVELS FROM 1ST ORDER NGS BM RV 137 IN JULY 2012 BY S5114. ELEVATION UPDATED FROM 259.1880 TO 259.1560 BASED ON LEVEL RUN FROM NGS BM RV 135 AND GPS MON 430016 BY GARVER DURING JOB 061102 IN FEBRUARY 2014.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430017A	<b>Date Monumented</b> 8/6/2003	<b>Monumented By</b> AHTD	<b>County</b> LONOKE	<b>Route</b> 38	<b>Job Number:</b> 02,061261,061334,061383.06
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	71,947.9900
<b>Easting (M)</b>	401,013.1490
<b>Elevation (M)*</b>	87.109
<b>Northing (SFT)</b>	236,049.3639
<b>Easting (SFT)</b>	1,315,657.3063
<b>Elevation (SFT)*</b>	285.789

  

<b>Convergence Angle</b>	0	0	23.2443370
<b>Scale Factor</b>	0.999990819		
<b>Elevation Adjust. Factor</b>	0.9999863300		
<b>Combined Adjust. Factor</b>	0.9999771491		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND HIGHWAY 38, IN CABOT, GO NORTH ON HIGHWAY 38 1.7 MILES TO THE STAION ON THE RIGHT, 3.40 METERS EAST OF A GRAVEL DRIVE, SOUTH 10.30 METERS OF THE CENTERLINE OF 38 AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430017A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	89	22.10	72.5
<b>MK # 2</b>	UNITED METHODIST CHURCH SIGN	255	5.45	17.9
<b>MK # 3</b>	TELEPHONE POLE	264	22.60	74.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> MEM2 CORS <b>Ref Mon # 3</b> 430014	ELEVATION BASED ON LEVEL RUN BY GARVER FROM NGS BM RV 135 AND GPS MON 430016 DURING JOB 061102 IN FEBRUARY 2014.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430018	<b>Date Monumented</b> 2/14/2007	<b>Monumented By</b> AHTD	<b>County</b> Lonoke	<b>Route</b> 89	<b>Job Number:</b> 060897
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	52,034.4890		
<b>Easting (M)</b>	407,846.6910		
<b>Elevation (M)*</b>	75.907		
<b>Northing (SFT)</b>	170,716.4860		
<b>Easting (SFT)</b>	1,338,077.0187		
<b>Elevation (SFT)*</b>	249.038		

  

<b>Convergence Angle</b>	0	2	59.6260811
<b>Scale Factor</b>	1.000028341		
<b>Elevation Adjust. Factor</b>	0.9999880879		
<b>Combined Adjust. Factor</b>	1.0000164285		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 89 and 31 in Lonoke go north on Hwy-89 for 2.0 miles to the station on the right just before crossing over the interstate 16.6 feet east of the center of hwy-89 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped " 430018 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of guard rail	346	1.89	6.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> 430013 <b>Ref Mon # 2</b> Q 205 <b>Ref Mon # 3</b> ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.         </td> </tr> </table>	Comments	3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.
Comments			
3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430018A	<b>Date Monumented</b> 2/14/2007	<b>Monumented By</b> AHTD	<b>County</b> Lonoke	<b>Route</b> I 40	<b>Job Number:</b> 060897
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	52,121.3719				
<b>Easting (M)</b>	407,359.7960				
<b>Elevation (M)*</b>	72.666				
<b>Northing (SFT)</b>	171,001.5343				
<b>Easting (SFT)</b>	1,336,479.5974				
<b>Elevation (SFT)*</b>	238.405				

  

<b>Convergence Angle</b>	0	2	48.4817333
<b>Scale Factor</b>	1.000028155		
<b>Elevation Adjust. Factor</b>	0.9999885965		
<b>Combined Adjust. Factor</b>	1.0000167512		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Underground cable marker	265	20.21	66.3
<b>MK # 2</b>	Concrete drain pipe	343	26.70	87.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 430013	3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.
<b>Ref Mon # 2</b> Q 205	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430019	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 381	<b>Job Number:</b> 06X122
--------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	632,746.8586	0.0030	
<b>Easting (M)</b>	417,659.4674	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,075,936.9853		
<b>Easting (SFT)</b>	1,370,271.1026		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	6	28.6668293
<b>Scale Factor</b>	0.999999616		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER WELL	159	7.19	23.6
<b>MK # 2</b>	COMBINATION POLE W/LIGHT	248	27.16	89.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> ARPB	
<b>Ref Mon # 3</b> ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    45    53.7153408
<b>Longitude</b>	91    48    25.5685248
<b>Ellipsoid Height (M):</b>	44.275    0.0050
<b>Geoid Height (M):</b>	-26.813    0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 1.0 MILE TO THE MARK ON THE LEFT, EAST 38.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430019A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 381	<b>Job Number:</b> 06X122
---------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	633,222.7359	0.0030
<b>Easting (M)</b>	417,671.2183	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,077,498.2594	
<b>Easting (SFT)</b>	1,370,309.6554	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	28.9452020
<b>Scale Factor</b>	1.000000573		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS TEST STATION	256	18.23	59.8
MK # 2	POWER POLE	287	76.90	252.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> ARWY	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 46 9.1573104
<b>Longitude</b>	91 48 25.0711560
<b>Ellipsoid Height (M):</b>	43.401 0.0050
<b>Geoid Height (M):</b>	-26.821 0.0050

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 0.7 MILES TO THE MARK ON THE LEFT, EAST 35.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	430019
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430020	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 31	<b>Job Number:</b> 06X131
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	606,114.2860	0.0020			
<b>Easting (M)</b>	411,536.4749	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,988,559.9533				
<b>Easting (SFT)</b>	1,350,182.5847				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	4	13.1866971
<b>Scale Factor</b>	0.999955020		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	41	21.79	71.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	
Ref Mon # 2: ARPB	
Ref Mon # 3: ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 31 29.7323220
<b>Longitude</b>	91 52 27.6310344
<b>Ellipsoid Height (M):</b>	39.826 0.0090
<b>Geoid Height (M):</b>	-26.348 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.45 MILES TO THE MARK ON THE RIGHT, WEST 22.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430020A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 31	<b>Job Number:</b> 06X131
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	606,481.1817	0.0020	
<b>Easting (M)</b>	411,547.0258	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,989,763.6770		
<b>Easting (SFT)</b>	1,350,217.2005		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	4	13.4281469
<b>Scale Factor</b>	0.999955515		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	21.43	70.3
MK # 2	TELEPHONE BOX	40	28.38	93.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARPB	Ref Mon # 3	ARWY	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARPB						
Ref Mon # 3	ARWY						

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude** 34 31 41.6390448

**Longitude** 91 52 27.1996356

**Ellipsoid Height (M):** 38.708 0.0090

**Geoid Height (M):** -26.353 0.0090

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.2 MILES TO THE MARK ON THE RIGHT, WEST 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430021	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 06X282
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	602,265.6696	0.0020	
<b>Easting (M)</b>	422,200.1675	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,975,933.2843		
<b>Easting (SFT)</b>	1,385,168.3829		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	8	7.0186767
<b>Scale Factor</b>	0.999950004		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	164	17.43	57.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARLR	
Ref Mon # 2    ARPB	
Ref Mon # 3    ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34   29   24.2086236
<b>Longitude</b>	91   45   29.8431648
<b>Ellipsoid Height (M):</b>	33.334   0.0100
<b>Geoid Height (M):</b>	-26.399   0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.55 MILES TO THE MARK ON THE LEFT, EAST 24.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430021A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 13	<b>Job Number:</b> 06X282
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	602,743.9043	0.0020	
<b>Easting (M)</b>	422,187.5286	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,977,502.2927		
<b>Easting (SFT)</b>	1,385,126.9167		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	8	6.7661692
<b>Scale Factor</b>	0.999950604		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CMP	63	7.13	23.4
<b>MK # 2</b>	COMBINATION POLE W/2 GUYS	81	26.12	85.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> ARWY	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 18		
<b>Latitude</b>	34	29	39.7302396
<b>Longitude</b>	91	45	30.2943204
<b>Ellipsoid Height (M):</b>	34.219	0.0100	
<b>Geoid Height (M):</b>	-26.405	0.0100	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.25 MILES TO THE MARK ON THE RIGHT, WEST 49.3' OF THE C/L OF THE HIGHWAY AND 19.8' SOUTH OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021A 2020" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430022	<b>Date Monumented</b> 3/16/2021	<b>Monumented By</b> ARDOT	<b>County</b> LONOKE	<b>Route</b> 5	<b>Job Number:</b> 060906
--------------------------	-------------------------------------	-------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	76,730.4871 0.0020
<b>Easting (M)</b>	393,437.6619 0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	251,739.9398	
<b>Easting (SFT)</b>	1,290,803.3958	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	30.6376217
<b>Scale Factor</b>	0.999983257		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 2.41 MI TO THE STATION ON THE RIGHT. THE STATION IS 46' WEST OF THE CENTER OF STATE HIGHWAY 5. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "430022 2021" SET ON TOP OF AN IRON ROD 4' LONG AND DRIVEN BELOW SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	330	4.63	15.2
MK # 2	18" CMP	175	3.11	10.2
MK # 3				

  

<b>AZ Mark Station</b>	430012
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440001	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> N/A	<b>Job Number:</b> R90018
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	165,555.6369		
<b>Easting (M)</b>	224,067.9740		
<b>Elevation (M)*</b>	699.916		
<b>Northing (SFT)</b>	543,160.4521		
<b>Easting (SFT)</b>	735,129.6780		
<b>Elevation (SFT)*</b>	2,296.308		

  

<b>Convergence Angle</b>	-1	7	58.2860089
<b>Scale Factor</b>	0.999943667		
<b>Elevation Adjust. Factor</b>	0.9998901724		
<b>Combined Adjust. Factor</b>	0.9998338456		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM. BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 8.85 KM (5.50 MILES) TO A "T" JCT. AND CO. RD. NO. 1 ON THE LEFT AND CO. RD. NO. 126 ON THE RIGHT, TURN LEFT ON CO. RD. NO. 1 AND GO 0.97 KM (0.60 MILES) TO THE STATION ON THE RIGHT IN AN EAST-WEST FENCE LINE. THE STATION IS 15.70 METERS WEST OF A FENCE, 23.70 METERS WEST OF THE CENTER OF CO. RD. NO. 1 AND 1.0 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				K-143 USC&GS BM	
MK # 2	NONE				Geodetic Azimuth	176 58 56.00184
MK # 3	NONE				Grid Azimuth	356 58 56.37675

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: DENNIS	
Ref Mon # 2: NELSON	
Ref Mon # 3: BIEHL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440002	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 295	<b>Job Number:</b> R90018
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	169,174.3710		
<b>Easting (M)</b>	225,028.1730		
<b>Elevation (M)*</b>	490.825		
<b>Northing (SFT)</b>	555,032.9155		
<b>Easting (SFT)</b>	738,279.9309		
<b>Elevation (SFT)*</b>	1,610.315		

  

<b>Convergence Angle</b>	-1	7	37.6833701
<b>Scale Factor</b>	0.999946077		
<b>Elevation Adjust. Factor</b>	0.9999229795		
<b>Combined Adjust. Factor</b>	0.9998690606		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 4.82 KM (3.0 MILES) TO A MOBILE HOME AND FIELD ROAD ON THE RIGHT, TURN RIGHT (WEST) ONTO THE FIELD ROAD PASSING BY THE MOBILE HOME AND THEN CROSSING A CATTLE GUARD FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.00 METERS NORTHEAST OF THE MAIN DRIVEWAY, 8.00 METERS SOUTHEAST OF A ROAD TO A BARN AND 1.43 METERS SOUTHWEST OF A POWER POLE WITH A WITNESS POST DRIVEN IN FRONT OF IT. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: DENNIS</p> <p>Ref Mon # 2: NELSON</p> <p>Ref Mon # 3: BIEHL</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440002A	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 295	<b>Job Number:</b> R90018
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	168,829.9889		
<b>Easting (M)</b>	224,926.9370		
<b>Elevation (M)*</b>	480.471		
<b>Northing (SFT)</b>	553,903.0552		
<b>Easting (SFT)</b>	737,947.7925		
<b>Elevation (SFT)*</b>	1,576.345		

  

<b>Convergence Angle</b>	-1	7	39.8733020
<b>Scale Factor</b>	0.999945834		
<b>Elevation Adjust. Factor</b>	0.9999246041		
<b>Combined Adjust. Factor</b>	0.9998704422		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	25	8.10	26.6
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	205	10.20	33.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="DENNIS"/> <b>Ref Mon # 2</b> <input type="text" value="NELSON"/> <b>Ref Mon # 3</b> <input type="text" value="BIEHL"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 50 22.4995956
<b>Longitude</b>	93 56 16.9365624
<b>Ellipsoid Height (M):</b>	451.834
<b>Geoid Height (M):</b>	-28.637

Location Description
<p>FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 5.15 KM (3.20 MILES) TO THE STATION ON THE LEFT JUST BEFORE REACHING A CHURCH AND CEMETERY. THE STATION IS 7.40 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 295 AND 0.55 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>

<b>AZ Mark Station</b>	440002
<b>Geodetic Azimuth</b>	15 15 13.862383
<b>Grid Azimuth</b>	16 22 53.742529

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440003	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,081.8090	
<b>Easting (M)</b>	227,121.9306	
<b>Elevation (M)*</b>	404.802	
<b>Northing (SFT)</b>	567,852.5684	
<b>Easting (SFT)</b>	745,149.2006	
<b>Elevation (SFT)*</b>	1,328.088	

  

<b>Convergence Angle</b>	-1	6	50.9022316
<b>Scale Factor</b>	0.999949064		
<b>Elevation Adjust. Factor</b>	0.9999364774		
<b>Combined Adjust. Factor</b>	0.9998855446		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 16 AND HWY 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO NORTHWEST ON HWY. 16 FOR 0.36 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS NORTHWEST OF A FIELD ENTRANCE, 8.70 METERS SOUTHWEST OF THE CENTER OF HWY. 16 AND 0.67 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    OLD MAIN</p> <p>Ref Mon # 2    GAYLOR</p> <p>Ref Mon # 3    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440003A	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	172,773.7162	
<b>Easting (M)</b>	227,343.1697	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	566,841.7672	
<b>Easting (SFT)</b>	745,875.0493	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	6	45.6318127
<b>Scale Factor</b>	0.999948820		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	305	7.00	23.0
<b>MK # 2</b>	NBC IN POWER POLE	175	6.60	21.7
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	281	8.43	27.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OLD MAIN	
<b>Ref Mon # 2</b> GAYLOR	
<b>Ref Mon # 3</b> OZARPORT	

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 52 31.9695708
<b>Longitude</b>	93 54 43.7219712
<b>Ellipsoid Height (M):</b>	379.595
<b>Geoid Height (M):</b>	-27.902

  

Location Description
<p>AT THE JCT. OF HWY. AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM SOUTHEAST OF FAYETTEVILLE, THE STATION IS LOCATED 20.0 METERS FROM THE ROAD JCT., 7.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 16, 20.0 METERS EAST OF THE CENTERLINE OF HWY. 295 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 1/2" ALUMINUM CAP STAMPED "440003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND IS FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440004A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
---------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,227.7539	
<b>Easting (M)</b>	243,903.2810	
<b>Elevation (M)*</b>	382.464	
<b>Northing (SFT)</b>	656,913.8893	
<b>Easting (SFT)</b>	800,206.0144	
<b>Elevation (SFT)*</b>	1,254.801	

  

<b>Convergence Angle</b>	-1	0	32.7377713
<b>Scale Factor</b>	0.999980497		
<b>Elevation Adjust. Factor</b>	0.9999399825		
<b>Combined Adjust. Factor</b>	0.9999204807		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	STOP SIGN	335	34.69	113.8
<b>MK # 2</b>	CHISELED X ON TOP @ NE COR OF BRIDGE	175	67.57	221.7
<b>MK # 3</b>	PK SHINER ON EAST EDGE OF PAVEMENT	335	8.11	26.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 2</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 3</b> <input type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440005A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948, R90104
---------------------------	------------------------------------	---	--------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 198,718.7049		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 246,162.1580		<b>Latitude</b> 36 6 44.8568424
<b>Elevation (M)*</b> 420.381		<b>Longitude</b> 93 42 31.5294444
<b>Northing (SFT)</b> 651,962.9510		<b>Ellipsoid Height (M):</b> 391.846
<b>Easting (SFT)</b> 807,617.0134		<b>Geoid Height (M):</b> -28.535
<b>Elevation (SFT)*</b> 1,379.200		

  

<b>Convergence Angle</b>	0	59	39.5696198
<b>Scale Factor</b>	0.999978342		
<b>Elevation Adjust. Factor</b>	0.9999340329		
<b>Combined Adjust. Factor</b>	0.9999123763		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL ON NORTH SHOULDER	170	7.96	26.1
<b>MK # 2</b>	FENCE CORNER	110	29.35	96.3
<b>MK # 3</b>	TO W MOST OF 2 2" POSTS IN R/W FENCE	35	4.30	14.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440006	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948,R90104
--------------------------	------------------------------------	---	--------------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	198,905.8359	
<b>Easting (M)</b>	246,446.5490	
<b>Elevation (M)*</b>	426.837	
<b>Northing (SFT)</b>	652,576.8966	
<b>Easting (SFT)</b>	808,550.0528	
<b>Elevation (SFT)*</b>	1,400.381	

  

<b>Convergence Angle</b>	0	59	33.0290238
<b>Scale Factor</b>	0.999978621		
<b>Elevation Adjust. Factor</b>	0.9999330198		
<b>Combined Adjust. Factor</b>	0.9999116423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CURVE SIGN	110	23.35	76.6
<b>MK # 2</b>	60D NAIL IN N SHOULDER OF HIGHWAY 41	190	8.89	29.2
<b>MK # 3</b>	BLACK 2" PIPE CORNER POST	230	20.09	65.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 2</b> <input type="text" value="NONE"/>	
<b>Ref Mon # 3</b> <input type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440007A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
---------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	198,873.4209	
<b>Easting (M)</b>	238,633.4660	
<b>Elevation (M)*</b>	464.699	
<b>Northing (SFT)</b>	652,470.5484	
<b>Easting (SFT)</b>	782,916.6297	
<b>Elevation (SFT)*</b>	1,524.600	

  

<b>Convergence Angle</b>	-1	2	34.7784189
<b>Scale Factor</b>	0.999978372		
<b>Elevation Adjust. Factor</b>	0.9999270789		
<b>Combined Adjust. Factor</b>	0.9999054525		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN THE SE FACE OF 18" OAK	320	26.21	86.0
<b>MK # 2</b>	60D NAIL IN THE NE FACE OF 14" OAK	210	14.33	47.0
<b>MK # 3</b>	60D NAIL IN THE EAST FACE OF 18" OAK	290	18.40	60.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	NONE
<b>Ref Mon # 2</b>	NONE
<b>Ref Mon # 3</b>	NONE

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 6 45.5331888
<b>Longitude</b>	93 47 32.6276772
<b>Ellipsoid Height (M):</b>	436.078
<b>Geoid Height (M):</b>	-28.395

Location Description
<p>MON IS A 2 1/2" BRASS CAP ON 3/4"x 36" REBAR STAMPED "AHTD GPS 440007A" TO REACH FROM JCT OF HWY 412 &amp; MADISON CO RD 478 PROCEED SW ON 478 APPROX .2 MILE TO CURVE S GO S APPROX .1MILE TO A DRIVE TURN W TO THE CORNETT HOOUSE TURN N AT RED GATE AND GO APPROX .15 MI N TO STA.</p>

<b>AZ Mark Station</b>	440008
<b>Geodetic Azimuth</b>	357 34 49.3
<b>Grid Azimuth</b>	358 37 24.1

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440008	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,364.2279	
<b>Easting (M)</b>	238,645.2610	
<b>Elevation (M)*</b>	443.732	
<b>Northing (SFT)</b>	654,080.8044	
<b>Easting (SFT)</b>	782,955.3271	
<b>Elevation (SFT)*</b>	1,455.811	

  

<b>Convergence Angle</b>	-1	2	34.7118932
<b>Scale Factor</b>	0.999979087		
<b>Elevation Adjust. Factor</b>	0.9999303688		
<b>Combined Adjust. Factor</b>	0.9999094573		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
MONUMENT IS 2 1/2" BRASS CAP FLUSH ON A 3/4" x 36" REBAR STAMPED "AHTD GPS 440008 WEST-NW OF "SELECTRONIC" OFFICE. MONUMENT IS ON LAND OWNED BY CLIFTON WOOD RT 3 BOX 273 HUNTSVILLE, ARKANSAS PHONE# (501) 738-2892			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN THE EAST FACE OF 18" CEDAR	280	22.35	73.3	
<b>MK # 2</b>	60D NAIL IN THE SOUTH FACE OF 24" OAK	20	31.42	103.1	
<b>MK # 3</b>	NW CORNER OF OLD CHICKEN BARN	120	27.37	89.8	

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440009	<b>Date Monumented</b> 11/10/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 009951
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,312.0890	
<b>Easting (M)</b>	234,618.9550	
<b>Elevation (M)*</b>	416.507	
<b>Northing (SFT)</b>	657,190.5787	
<b>Easting (SFT)</b>	769,745.6882	
<b>Elevation (SFT)*</b>	1,366.491	

  

<b>Convergence Angle</b>	-1	4	8.7937504
<b>Scale Factor</b>	0.999980373		
<b>Elevation Adjust. Factor</b>	0.9999346407		
<b>Combined Adjust. Factor</b>	0.9999150150		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	3" BRACE POST	296	21.00	68.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PRICE	Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116
<b>Ref Mon # 2</b> HINDSVILLE NO. 2	
<b>Ref Mon # 3</b> 440001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440009A	<b>Date Monumented</b> 11/10/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9951
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,633.7380	
<b>Easting (M)</b>	233,926.5710	
<b>Elevation (M)*</b>	419.604	
<b>Northing (SFT)</b>	658,245.8554	
<b>Easting (SFT)</b>	767,474.0917	
<b>Elevation (SFT)*</b>	1,376.651	

  

<b>Convergence Angle</b>	-1	4	25.0435884
<b>Scale Factor</b>	0.999980832		
<b>Elevation Adjust. Factor</b>	0.9999341548		
<b>Combined Adjust. Factor</b>	0.9999149880		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	125	5.74	18.8
<b>MK # 2</b>	48" MAPLE TREE	135	24.80	81.4
<b>MK # 3</b>	NORTHWEST CORNER OF A HOUSE	150	28.75	94.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> PRICE <b>Ref Mon # 2</b> HINDSVILLE NO. 2 <b>Ref Mon # 3</b> 440001	Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116

  

Location Description	
FROM THE JCT. OF HWY. 412 AND HWY. 45 JUST SOUTHEAST OF HINDSVILLE, GO EAST ON HWY. 412 FOR 1.64 KM (1.02 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.25 METERS WEST OF THE CENTER OF A PRIVATE DRIVEWAY, 10.96 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440010	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> R90104
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 196,959.0999		<b>Latitude</b> 36 5 46.7840400
<b>Easting (M)</b> 244,410.3500		<b>Longitude</b> 93 43 40.3302684
<b>Elevation (M)*</b> 425.918		<b>Ellipsoid Height (M):</b> 397.402
<b>Northing (SFT)</b> 646,189.9803		<b>Geoid Height (M):</b> -28.516
<b>Easting (SFT)</b> 801,869.6233		
<b>Elevation (SFT)*</b> 1,397.366		

  

<b>Convergence Angle</b> -1 0 19.6047593	<b>Location Description</b>
<b>Scale Factor</b> 0.999975789	<p>TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 23, LOCATED ON THE EAST SIDE OF HUNTSVILLE, GO NORTHERLY ON U.S. HIGHWAY 412 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS NORTHEAST OF THE CENTER OF THE SOUTH ENTRANCE TO SAMS BARBER &amp; BEAUTY SHOP, 17.65 METERS SOUTHWEST OF THE NORTH ENTRANCE TO SAMS BARBER &amp; BEAUTY SHOP, 8.85 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 1.45 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440010 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999331640	
<b>Combined Adjust. Factor</b> 0.9999089547	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE COR OF SAMS BARBER & BEAUTY SH	328	17.26	56.6
MK # 2	SE COR OF SAMS BARBER & BEAUTY SHO	281	12.96	42.5
MK # 3	CABLE POLE	299	1.69	5.5

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1: HUNTSVILLE Ref Mon # 2: BURLINGTON RESET Ref Mon # 3: MARBLE	<b>Comments</b>     
---	-------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440010A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> N/A	<b>Job Number:</b> R90104
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	198,019.9239	
<b>Easting (M)</b>	244,353.3560	
<b>Elevation (M)*</b>	431.301	
<b>Northing (SFT)</b>	649,670.3670	
<b>Easting (SFT)</b>	801,682.6355	
<b>Elevation (SFT)*</b>	1,415.027	

  

<b>Convergence Angle</b>	-1	0	21.3636199
<b>Scale Factor</b>	0.999977291		
<b>Elevation Adjust. Factor</b>	0.9999323194		
<b>Combined Adjust. Factor</b>	0.9999096119		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. 412 AND STATE HIGHWAY 63 ON THE EASTERN SIDE OF HUNTSVILLE GO NORTHERLY ON HWY-23 FOR 0.97 KM. (0.60 MI.) TO A PAVED ROAD RIGHT ENTERING INTO THE "CEDAR BLUFF" SUBDIVISION. TURN RIGHT AND GO EASTERLY AND UPHILL FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF ANOTHER PAVED ROAD AND THE STATION ON THE LEFT IN THE NORTHWEST CORNER OF THE INTERSECTION. 7.85 METERS NORTH OF THE CENTER OF A PAVED STREET, 6.45 METERS WEST OF THE CENTER OF A PAVED STREET AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	141	24.55	80.5
MK # 2	GAS METER	285	43.65	143.2
MK # 3	TELEPHONE JUNCTION BOX	302	50.20	164.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HUNTSVILLE</p> <p>Ref Mon # 2    BURLINGTON RESET</p> <p>Ref Mon # 3    MARBLE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440011	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> R90104
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,733.9850	
<b>Easting (M)</b>	248,411.3940	
<b>Elevation (M)*</b>	400.807	
<b>Northing (SFT)</b>	658,574.7491	
<b>Easting (SFT)</b>	814,996.3818	
<b>Elevation (SFT)*</b>	1,314.981	

  

<b>Convergence Angle</b>	0	58	48.0456366
<b>Scale Factor</b>	0.999981370		
<b>Elevation Adjust. Factor</b>	0.9999371043		
<b>Combined Adjust. Factor</b>	0.9999184754		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.48 (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 , 0.82 METERS SOUTH-SOUTEAST OF A BARBED WIRE FENCE AND 0.68 METERS SOUTH-SOUTEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	0.060 METER IRON PIPE FENCE LINE BRACE	65	7.30	24.0	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HUNTSVILLE</p> <p>Ref Mon # 2    BURLINGTON RESET</p> <p>Ref Mon # 3    MARBLE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440011A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> R90104
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 200,546.4519		<b>Latitude</b> 36 7 45.2205516
<b>Easting (M)</b> 248,078.5160		<b>Longitude</b> 93 41 16.1676420
<b>Elevation (M)*</b> 393.243		<b>Ellipsoid Height (M):</b> 364.685
		<b>Geoid Height (M):</b> -28.558

  

<b>Northing (SFT)</b> 657,959.4843	<b>Easting (SFT)</b> 813,904.2646	<b>Location Description</b>
<b>Elevation (SFT)*</b> 1,290.165		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.30 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 11.55 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 10.00 METERS SOUTH OF THE CENTER OF A CONCRETE HEADWALL 1.64 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Convergence Angle</b> 0 58 55.7166527		
<b>Scale Factor</b> 0.999981080		
<b>Elevation Adjust. Factor</b> 0.9999382912		
<b>Combined Adjust. Factor</b> 0.9999193723		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.110 METER IRON PIPE TO A CABLE FENCE	63	9.02	29.6
MK # 2	0.110 METER IRON PIPE TO A CABLE FENCE	124	1.70	5.6
MK # 3	TELEPHONE JUNCTION BOX	157	10.90	35.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440012	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> R90104
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	200,283.2139	
<b>Easting (M)</b>	254,874.3680	
<b>Elevation (M)*</b>	463.203	
<b>Northing (SFT)</b>	657,095.8443	
<b>Easting (SFT)</b>	836,200.3223	
<b>Elevation (SFT)*</b>	1,519.692	

  

<b>Convergence Angle</b>	0	56	17.4832677
<b>Scale Factor</b>	0.999980857		
<b>Elevation Adjust. Factor</b>	0.9999273136		
<b>Combined Adjust. Factor</b>	0.9999081720		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	250	2.90	9.5
<b>MK # 2</b>	POWER POLE	22	26.69	87.6
<b>MK # 3</b>	WOODED GATE POST	87	39.69	130.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HUNTSVILLE	
<b>Ref Mon # 2</b> BURLINGTON RESET	
<b>Ref Mon # 3</b> MARBLE	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 7 40.3759308
<b>Longitude</b>	93 36 44.2418436
<b>Ellipsoid Height (M):</b>	434.613
<b>Geoid Height (M):</b>	-28.590

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 6.68 KM (4.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.886 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 11.24 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440012 1997" SET ON TOP OF AN IRON ROD 1.20 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	440012A
<b>Geodetic Azimuth</b>	307 55 37.45199
<b>Grid Azimuth</b>	308 51 54.88224

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440012A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> N/A	<b>Job Number:</b> R90104
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 200,557.0150		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 254,534.6220		<b>Latitude</b> 36 7 49.0773288
<b>Elevation (M)*</b> 462.725		<b>Longitude</b> 93 36 58.0071312
<b>Northing (SFT)</b> 657,994.1400		<b>Ellipsoid Height (M):</b> 434.135
<b>Easting (SFT)</b> 835,085.6723		<b>Geoid Height (M):</b> -28.590
<b>Elevation (SFT)*</b> 1,518.124		

  

<b>Convergence Angle</b> 0 56 25.4932766	<b>Location Description</b>
<b>Scale Factor</b> 0.999981258	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM ( 2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 7.08 KM (4.40 MI) TO THE JUNCTION OF COUNTY ROAD 278 ON THE RIGHT, TURN RIGHT NORTH ON COUNTY ROAD 278 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 3.90 METERS WEST OF THE CENTER OF COUNTY ROAD 278 AND 0.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440012A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999273886	
<b>Combined Adjust. Factor</b> 0.9999086480	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					440012
MK # 2						127 55 29.33587
MK # 3						128 51 54.88224

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440013	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> R90104
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	201,389.1620	
<b>Easting (M)</b>	257,492.1300	
<b>Elevation (M)*</b>	399.095	
<b>Northing (SFT)</b>	660,724.2757	
<b>Easting (SFT)</b>	844,788.7632	
<b>Elevation (SFT)*</b>	1,309.364	

  

<b>Convergence Angle</b>	0	55	16.9850223
<b>Scale Factor</b>	0.999982586		
<b>Elevation Adjust. Factor</b>	0.9999373729		
<b>Combined Adjust. Factor</b>	0.9999199600		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER FENCE POST	297	51.87	170.2
<b>MK # 2</b>	WOODEN CORNER FENCE POST	84	41.09	134.8
<b>MK # 3</b>	WEST END OF CONCRETE HEADWALL	119	25.48	83.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HUNTSVILLE	
<b>Ref Mon # 2</b> BURLINGTON RESET	
<b>Ref Mon # 3</b> MARBLE	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 8 17.6310960
<b>Longitude</b>	93 35 0.2749488
<b>Ellipsoid Height (M):</b>	370.481
<b>Geoid Height (M):</b>	-28.614

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 3.14 KM (1.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.600 METERS WEST OF THE CENTER OF DRIVEWAY, 10.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 6.419 METERS SOUTH OF A PAVED ROAD (OLD HIGHWAY) AND 1.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440013 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440013A	<b>Date Monumented</b> 4/22/1997	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> N/A	<b>Job Number:</b> R90104
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	201,400.4720	
<b>Easting (M)</b>	257,973.0340	
<b>Elevation (M)*</b>	397.430	
<b>Northing (SFT)</b>	660,761.3819	
<b>Easting (SFT)</b>	846,366.5290	
<b>Elevation (SFT)*</b>	1,303.902	

  

<b>Convergence Angle</b>	0	55	5.7977346
<b>Scale Factor</b>	0.999982615		
<b>Elevation Adjust. Factor</b>	0.9999376342		
<b>Combined Adjust. Factor</b>	0.9999202502		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 2.49 KM (1.55 MI) TO THE JUNCTION OF COUNTY ROAD 24 ON THE RIGHT, TURN RIGHT NORTH ON COUNTY ROAD 24 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS WEST OF THE CENTER OF COUNTY ROAD 24, 0.85 METERS EAST OF A BARBED WIRE FENCE AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440013A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND IS DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	173	19.65	64.5
MK # 2	WOODEN LINE BRACE FENCE POST	349	27.40	89.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HUNTSVILLE</p> <p>Ref Mon # 2    BURLINGTON RESET</p> <p>Ref Mon # 3    MARBLE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440014	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090009
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,635.0420	
<b>Easting (M)</b>	238,210.3099	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	543,420.9670	
<b>Easting (SFT)</b>	781,528.3251	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	30.5609383
<b>Scale Factor</b>	0.999943883		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN GATE POST	91	3.59	11.8
<b>MK # 2</b>	WOODEN BRACE POST	141	3.37	11.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OLD MAIN	
<b>Ref Mon # 2</b> GAYLOR	
<b>Ref Mon # 3</b> OZARPORT	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 48 47.0110284
<b>Longitude</b>	93 47 25.3798908
<b>Ellipsoid Height (M):</b>	418.100
<b>Geoid Height (M):</b>	-27.962

Location Description
<p>TO REACH THE STATIONS FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO EAST ON STATE HIGHWAY 23 FOR 0.45 KM (0.28 MI) TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 28.09 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23, 5.72 METERS WEST OF A GRAVEL DRIVE AND 4.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.992 METERS.</p>

<b>AZ Mark Station</b>	440014A
<b>Geodetic Azimuth</b>	258 41 53.14165
<b>Grid Azimuth</b>	259 44 23.67609

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440014A	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090009
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,560.4408	
<b>Easting (M)</b>	237,798.1738	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	543,176.2129	
<b>Easting (SFT)</b>	780,176.1752	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	2	40.0813204
<b>Scale Factor</b>	0.999943832		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MOST WESTERLY WOODEN BRACE POST	265	2.87	9.4
<b>MK # 2</b>	MIDDLE WOODEN BRACE POST	322	1.63	5.3
<b>MK # 3</b>	MOST EASTERLY WOODEN BRACE POST	16	2.70	8.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> OLD MAIN <b>Ref Mon # 2</b> GAYLOR <b>Ref Mon # 3</b> OZARPORT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 48 44.3473704
<b>Longitude</b>	93 47 41.7407712
<b>Ellipsoid Height (M):</b>	417.590
<b>Geoid Height (M):</b>	-27.965

Location Description
THE STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS. THE STATION IS 15.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 1.44 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.892 METERS.

<b>AZ Mark Station</b>	440014
<b>Geodetic Azimuth</b>	78 41 43.56829
<b>Grid Azimuth</b>	79 44 23.67609

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440015	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,853.5828	
<b>Easting (M)</b>	234,358.3247	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	547,418.7962	
<b>Easting (SFT)</b>	768,890.6036	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	4	0.3620069
<b>Scale Factor</b>	0.999944618		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	344	1.95	6.4
<b>MK # 2</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	36	1.87	6.1
<b>MK # 3</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	65	3.25	10.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OLD MAIN	
<b>Ref Mon # 2</b> GAYLOR	
<b>Ref Mon # 3</b> OZARPORT	

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 24.2428548
<b>Longitude</b>	93 49 59.7040068
<b>Ellipsoid Height (M):</b>	404.998
<b>Geoid Height (M):</b>	-27.958

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 5.55 KM (3.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.82 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 16 AND 1.12 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 482.304 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440015A	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 295	<b>Job Number:</b> 090009
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,334.3608	
<b>Easting (M)</b>	234,396.0095	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	548,996.1487	
<b>Easting (SFT)</b>	769,014.2412	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	3	59.6959723
<b>Scale Factor</b>	0.999944936		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD R <small>ALL POST</small>	258	2.15	7.1
MK # 2	PUNCH MARK IN TOP OF METAL GUARD R <small>ALL POST</small>	316	1.15	3.8
MK # 3	PUNCH MARK IN TOP OF METAL GUARD R <small>ALL POST</small>	11	2.20	7.2

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    OLD MAIN Ref Mon # 2    GAYLOR Ref Mon # 3    OZARPORT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    49    39.8627904
<b>Longitude</b>	93    49    58.5594192
<b>Ellipsoid Height (M):</b>	401.875
<b>Geoid Height (M):</b>	-27.952

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 295 AND STATE HIGHWAY 16, LOCATED ON THE EAST SIDE OF COMBS, GO NORTH ON STATE HIGHWAY 295 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.27 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 295 AND 1.04 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440016	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,297.7069	
<b>Easting (M)</b>	228,130.3447	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	558,718.3934	
<b>Easting (SFT)</b>	748,457.6392	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	6	26.2639336
<b>Scale Factor</b>	0.999946932		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER POST	317	8.22	27.0
<b>MK # 2</b>	WOODEN CORNER POST	59	2.80	9.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> OLD MAIN	
<b>Ref Mon # 2</b> GAYLOR	
<b>Ref Mon # 3</b> OZARPORT	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 51 12.1407408

**Longitude** 93 54 10.4380596

**Ellipsoid Height (M):** 382.535

**Geoid Height (M):** -27.925

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 12.99 KM (8.07 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.10 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 6.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 16 AND 2.05 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440016A	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,538.3036	
<b>Easting (M)</b>	227,710.4802	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	559,507.7511	
<b>Easting (SFT)</b>	747,080.1338	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	6	36.1077375
<b>Scale Factor</b>	0.999947104		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 13.45 KM (8.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 16 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    OLD MAIN</p> <p>Ref Mon # 2    GAYLOR</p> <p>Ref Mon # 3    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440017	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	177,552.5379	
<b>Easting (M)</b>	224,742.9398	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	582,520.2848	
<b>Easting (SFT)</b>	737,344.1283	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	48.1278873
<b>Scale Factor</b>	0.999952868		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 21.52 KM (13.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16 AND 0.76 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 593.669 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	45	1.00	3.3
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    OLD MAIN</p> <p>Ref Mon # 2    GAYLOR</p> <p>Ref Mon # 3    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440017A	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 090009
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,015.4090	
<b>Easting (M)</b>	224,371.2847	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	584,038.8877	
<b>Easting (SFT)</b>	736,124.7899	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	56.9649713
<b>Scale Factor</b>	0.999953287		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER POST	298	2.05	6.7
<b>MK # 2</b>	WOODEN CORNER POST	89	14.50	47.6
<b>MK # 3</b>	GUY POLE	158	11.60	38.1

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>OLD MAIN</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OZARPORT</td> </tr> </table>	Ref Mon # 1	OLD MAIN	Ref Mon # 2	GAYLOR	Ref Mon # 3	OZARPORT	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	OLD MAIN						
Ref Mon # 2	GAYLOR						
Ref Mon # 3	OZARPORT						

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 55 20.1226368

**Longitude** 93 56 46.3087824

**Ellipsoid Height (M):** 386.794

**Geoid Height (M):** -27.889

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIHGWAY 16 FOR 22.10 KM (13.73 MI) TO THE STATION ON THE RIGHT SET ON THE TOP OF A HILL. THE STATION IS 18.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16, 2.85 METERS NORTH OF THE CENTER OF A GRAVEL ROAD AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	440017
<b>Geodetic Azimuth</b>	140 06 19.15616
<b>Grid Azimuth</b>	141 14 16.15734

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440018	<b>Date Monumented</b> 9/14/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009966,090552
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,802.3657	
<b>Easting (M)</b>	240,564.3026	
<b>Elevation (M)*</b>	461.191	
<b>Northing (SFT)</b>	547,250.7615	
<b>Easting (SFT)</b>	789,251.3828	
<b>Elevation (SFT)*</b>	1,513.091	

  

<b>Convergence Angle</b>	-1	1	36.4880436
<b>Scale Factor</b>	0.999944659		
<b>Elevation Adjust. Factor</b>	0.9999276293		
<b>Combined Adjust. Factor</b>	0.9998722923		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM ( 2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.03 KM (1.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23 AND 16, 3.93 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.61 METERS NORTH OF A WITNESS POST SET AT THE NORTHEAST CORNER OF A CHAINLINK FENCE SURROUNDING A SCHOOL PLAYGROUND. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST OF CHAIN LINK FENCE	181	0.80	2.6
<b>MK # 2</b>	GATE POST OF CHAIN LINK FENCE	270	17.65	57.9
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR</p> <p><b>Ref Mon # 2</b>    ENES</p> <p><b>Ref Mon # 3</b>    AHTD HAR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440018A	<b>Date Monumented</b> 9/14/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009966
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,841.5548	
<b>Easting (M)</b>	240,162.5058	
<b>Elevation (M)*</b>	458.964	
<b>Northing (SFT)</b>	547,379.3344	
<b>Easting (SFT)</b>	787,933.1544	
<b>Elevation (SFT)*</b>	1,505.784	

  

<b>Convergence Angle</b>	-1	1	45.8179505
<b>Scale Factor</b>	0.999944680		
<b>Elevation Adjust. Factor</b>	0.9999279788		
<b>Combined Adjust. Factor</b>	0.9998726628		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM ( 2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.38 KM (2.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS EAST-SOUTHEAST OF A WATER METER, 7.55 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	COMBINATION POLE		90	23.84	78.2	
MK # 2	GUY POLE		192	15.15	49.7	
MK # 3	GUY POLE		269	16.00	52.5	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	GAYLOR	
Ref Mon # 2	ENES	
Ref Mon # 3	AHTD HAR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440019	<b>Date Monumented</b> 9/14/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009966,090552
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,430.4135	
<b>Easting (M)</b>	242,178.8026	
<b>Elevation (M)*</b>	480.928	
<b>Northing (SFT)</b>	552,592.1150	
<b>Easting (SFT)</b>	794,548.2882	
<b>Elevation (SFT)*</b>	1,577.845	

  

<b>Convergence Angle</b>	-1	0	59.7336972
<b>Scale Factor</b>	0.999945780		
<b>Elevation Adjust. Factor</b>	0.9999245324		
<b>Combined Adjust. Factor</b>	0.9998703165		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM ( 2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.35 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 902. THE SHOT DISTANCE IS 286.285 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	199	15.15	49.7
<b>MK # 2</b>	CONCRETE R/W MARKER	27	19.15	62.8
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR</p> <p><b>Ref Mon # 2</b>    ENES</p> <p><b>Ref Mon # 3</b>    AHTD HAR 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440019A	<b>Date Monumented</b> 9/14/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009966
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,613.6925	
<b>Easting (M)</b>	242,398.6823	
<b>Elevation (M)*</b>	483.457	
<b>Northing (SFT)</b>	553,193.4228	
<b>Easting (SFT)</b>	795,269.6768	
<b>Elevation (SFT)*</b>	1,586.142	

  

<b>Convergence Angle</b>	-1	0	54.7112483
<b>Scale Factor</b>	0.999945911		
<b>Elevation Adjust. Factor</b>	0.9999241356		
<b>Combined Adjust. Factor</b>	0.9998700507		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM ( 2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 25.40 METERS NORTHEAST OF THE CENTER OF A PAVED ENTRANCE TO A PASTURE, 10.00 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.14 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM 902. THE SHOT DISTANCE IS 286.285 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	192	3.60	11.8
MK # 2	TELEPHONE JUNCTION BOX	231	21.50	70.5
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="GAYLOR"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ENES"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="AHTD HAR 1"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440020	<b>Date Monumented</b> 6/29/2001	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 74	<b>Job Number:</b> 009862,090343
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	189,986.8949	
<b>Easting (M)</b>	246,639.1560	
<b>Elevation (M)*</b>	402.320	
<b>Northing (SFT)</b>	623,315.3377	
<b>Easting (SFT)</b>	809,181.9643	
<b>Elevation (SFT)*</b>	1,319.944	

  

<b>Convergence Angle</b>	0	59	24.9616059
<b>Scale Factor</b>	0.999966649		
<b>Elevation Adjust. Factor</b>	0.9999368669		
<b>Combined Adjust. Factor</b>	0.9999035180		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO EAST ON STATE HIGHWAY 74 FOR 0.145 KM (0.09 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF HIGHWAY 74 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440020 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 492.655 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HARRISON CORS</p> <p><b>Ref Mon # 2</b>    V 26</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 &amp; AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440020A	<b>Date Monumented</b> 6/29/2001	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 74	<b>Job Number:</b> 009862,090343
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	189,993.8240	
<b>Easting (M)</b>	247,131.7240	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	623,338.0709	
<b>Easting (SFT)</b>	810,797.9978	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	13.5166198
<b>Scale Factor</b>	0.999966668		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WESTERN WOODEN IN LINE BRACE POST		1.45	4.8
<b>MK # 2</b>	EASTERN WOODEN IN LINE BRACE POST		1.20	3.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HARRISON CORS	
<b>Ref Mon # 2</b> V 26	
<b>Ref Mon # 3</b> GAYLOR	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 2.3650332
<b>Longitude</b>	93 41 46.7570796
<b>Ellipsoid Height (M):</b>	389.985
<b>Geoid Height (M):</b>	-27.844

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO EAST ON STATE HIGHWAY 74 FOR 0.628 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.85 METERS NORTH OF THE CENTER OF HIGHWAY 74 AND 0.59 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440020A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 492.655 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440021	<b>Date Monumented</b> 6/29/2001	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009862,090343
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,367.5590	
<b>Easting (M)</b>	244,340.0570	
<b>Elevation (M)*</b>	467.618	
<b>Northing (SFT)</b>	634,406.7332	
<b>Easting (SFT)</b>	801,639.0037	
<b>Elevation (SFT)*</b>	1,534.177	

  

<b>Convergence Angle</b>	-1	0	19.7735738
<b>Scale Factor</b>	0.999970904		
<b>Elevation Adjust. Factor</b>	0.9999266208		
<b>Combined Adjust. Factor</b>	0.9998975270		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 FOR 4.522 KM (2.81 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.70 METERS EAST OF THE CENTER OF HIGHWAY 23 AND 0.84 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440021 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 470.799 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST		0.95	3.1
MK # 2	TELEPHONE JUNCTION BOX		17.10	56.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HARRISON CORS</p> <p><b>Ref Mon # 2</b>    V 26</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 &amp; AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440021A	<b>Date Monumented</b> 6/29/2001	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 009862,090343
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,904.8969	
<b>Easting (M)</b>	244,426.9600	
<b>Elevation (M)*</b>	483.475	
<b>Northing (SFT)</b>	632,888.8159	
<b>Easting (SFT)</b>	801,924.1179	
<b>Elevation (SFT)*</b>	1,586.200	

  

<b>Convergence Angle</b>	-1	0	17.5644385
<b>Scale Factor</b>	0.999970300		
<b>Elevation Adjust. Factor</b>	0.9999241328		
<b>Combined Adjust. Factor</b>	0.9998944351		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 FOR 4.056 KM (2.52 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.15 METERS NORTH OF A PAVED DRIVE, 29.40 METERS SOUTH OF A CONCRETE DRIVE, 11.00 METERS EAST OF THE CENTER OF HIGHWAY 23 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440021A 2001" SET ON TOPOF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 470.799 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE		25.50	83.7
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HARRISON CORS</p> <p><b>Ref Mon # 2</b>    V 26</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 &amp; AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440022	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> NA	<b>Route</b> NA	<b>Job Number:</b> 040151
--------------------------	------------------------	----------------------	---------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	NONE
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,743.4160	
<b>Easting (M)</b>	225,408.8040	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	645,482.3573	
<b>Easting (SFT)</b>	739,528.7178	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	41.4458877
<b>Scale Factor</b>	0.999974993		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440022A	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> NA	<b>Route</b> NA	<b>Job Number:</b> 040151
---------------------------	------------------------	----------------------	---------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 196,479.4209		<b>Geoid Datum:</b>
<b>Easting (M)</b> 225,760.1670		<b>Latitude</b> 36 5 19.9698864
<b>Elevation (M)*</b>		<b>Longitude</b> 93 56 5.3888784
<b>Northing (SFT)</b> 644,616.2334		<b>Ellipsoid Height (M):</b> 404.884
<b>Easting (SFT)</b> 740,681.4812		<b>Geoid Height (M):</b> -27.892
<b>Elevation (SFT)*</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> -1 7 33.1537148		
<b>Scale Factor</b> 0.999974637		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b>
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440101	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 198,764.6229		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 240,182.1330		<b>Latitude</b> 36 6 42.9140844
<b>Elevation (M)*</b> 464.970		<b>Longitude</b> 93 46 30.6355692
<b>Northing (SFT)</b> 652,113.6003		<b>Ellipsoid Height (M):</b> 436.454
<b>Easting (SFT)</b> 787,997.5480		<b>Geoid Height (M):</b> -28.516
<b>Elevation (SFT)*</b> 1,525.489		

  

<b>Convergence Angle</b> -1 1 58.7052653	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "1" SET FLUSH WITH GROUND IN A CLEARING SOUTH APPROX 300' FROM HOUSE.
<b>Scale Factor</b> 0.999978255	
<b>Elevation Adjust. Factor</b> 0.9999270364	
<b>Combined Adjust. Factor</b> 0.9999052930	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SOUTH FACE OF 18" WHITE OA		33.57	110.1
<b>MK # 2</b>	60D NAIL IN WEST FACE OF 8" OAK		22.71	74.5
<b>MK # 3</b>	60D NAIL IN EAST FACE OF 4" BIRCH		27.33	89.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440102	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,271.4379	
<b>Easting (M)</b>	240,226.4580	
<b>Elevation (M)*</b>	473.471	
<b>Northing (SFT)</b>	653,776.3758	
<b>Easting (SFT)</b>	788,142.9710	
<b>Elevation (SFT)*</b>	1,553.379	

  

<b>Convergence Angle</b>	-1	1	57.8866576
<b>Scale Factor</b>	0.999978993		
<b>Elevation Adjust. Factor</b>	0.9999257025		
<b>Combined Adjust. Factor</b>	0.9999046970		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "2" SET 21.65' WEST OF CENTER LINE OF COUNTY ROAD #34 AND NW OF CONVENIENCE STORE ON EAST SIDE OF ROAD.				

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	8" PINE			14.66	48.1	
MK # 2	60D NAIL IN NE FACE OF 6" CORNER POST			12.24	40.2	
MK # 3	WEST OF CENTER LINE OF COUNTY ROAD #24			6.60	21.7	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440103	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	198,972.4520	
<b>Easting (M)</b>	241,222.6730	
<b>Elevation (M)*</b>	452.635	
<b>Northing (SFT)</b>	652,795.4529	
<b>Easting (SFT)</b>	791,411.3863	
<b>Elevation (SFT)*</b>	1,485.020	

  

<b>Convergence Angle</b>	-1	1	34.5853745
<b>Scale Factor</b>	0.999978584		
<b>Elevation Adjust. Factor</b>	0.9999289719		
<b>Combined Adjust. Factor</b>	0.9999075574		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN 5" ELM		15.67	51.4
MK # 2	ORANGE "T" POST		31.15	102.2
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 6 50.2625484
<b>Longitude</b>	93 45 49.1852736
<b>Ellipsoid Height (M):</b>	424.114
<b>Geoid Height (M):</b>	-28.521

**Location Description**

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "3" FLUSH WITH GROUND ON PROPERTY OWNED BY X. DOTSON. STATION IS 102.2' SOUTH OF SOUTH RIGHT-OF-WAY FENCE OF A DIRT AND GRAVEL ROAD AND IS NORTH OF A DRAIN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440104	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,423.0400	
<b>Easting (M)</b>	241,000.9760	
<b>Elevation (M)*</b>	443.966	
<b>Northing (SFT)</b>	654,273.7571	
<b>Easting (SFT)</b>	790,684.0354	
<b>Elevation (SFT)*</b>	1,456.578	

  

<b>Convergence Angle</b>	-1	1	39.9309834
<b>Scale Factor</b>	0.999979235		
<b>Elevation Adjust. Factor</b>	0.9999303321		
<b>Combined Adjust. Factor</b>	0.9999095686		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF UTILITY POLE		32.81	107.6	
MK # 2	60D NAIL IN SOUTH FACE OF 4" PECAN TR		20.67	67.8	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440105	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	198,988.3139				
<b>Easting (M)</b>	242,480.4030				
<b>Elevation (M)*</b>	456.762				
<b>Northing (SFT)</b>	652,847.4932				
<b>Easting (SFT)</b>	795,537.7888				
<b>Elevation (SFT)*</b>	1,498.560				

  

<b>Convergence Angle</b>	-1	1	5.3320335
<b>Scale Factor</b>	0.999978639		
<b>Elevation Adjust. Factor</b>	0.9999283243		
<b>Combined Adjust. Factor</b>	0.9999069648		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
STATION IS A 5/8 REBAR WITH ALUMINUM CAP STAMPED "5" IN UTILITY RIGHT-OF-WAY.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 12" OAK TREE		21.40	70.2	
MK # 2	60D NAIL IN WEST FACE OF 39" POST OAK		27.30	89.6	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440106	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,587.3350	
<b>Easting (M)</b>	242,241.7650	
<b>Elevation (M)*</b>	425.898	
<b>Northing (SFT)</b>	654,812.7816	
<b>Easting (SFT)</b>	794,754.8573	
<b>Elevation (SFT)*</b>	1,397.300	

  

<b>Convergence Angle</b>	-1	1	11.1317967
<b>Scale Factor</b>	0.999979508		
<b>Elevation Adjust. Factor</b>	0.9999331672		
<b>Combined Adjust. Factor</b>	0.9999126766		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "6" DRIVEN FLUSH WITH GROUND IN NE CORNER OF HAYFIELD WEST OF TRANSMISSION LINES AND 63.75' WEST OF GATE STATION IS SOUTH OF A SHARP DRAW.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 10" OAK		33.56	110.1	
MK # 2	GATE		19.43	63.7	
MK # 3	WEST "H" IN BRACE POWER POLE		23.19	76.1	

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440110	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 199,896.8029		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 243,765.1859		<b>Latitude</b> 36 7 21.7135956
<b>Elevation (M)*</b> 396.802		<b>Longitude</b> 93 44 8.1880116
<b>Northing (SFT)</b> 655,828.0942		<b>Ellipsoid Height (M):</b> 368.265
<b>Easting (SFT)</b> 799,752.9474		<b>Geoid Height (M):</b> -28.536
<b>Elevation (SFT)*</b> 1,301.841		

  

<b>Convergence Angle</b> -1 0 35.8151558	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "10" NORTH OF UNKNOWN COUNTY ROAD IN CATTLE PASTURE. STATION IS IN EAST SLOPE OF HILL.
<b>Scale Factor</b> 0.999980004	
<b>Elevation Adjust. Factor</b> 0.9999377327	
<b>Combined Adjust. Factor</b> 0.9999177379	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF POLE		26.14	85.8	
MK # 2	60D NAIL IN NW FACE OF 3" SWEET GUM		7.77	25.5	
MK # 3	3" PIPE POST		8.79	28.8	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440112	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 199,430.5910		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 244,484.8480		<b>Latitude</b> 36 7 7.0005504
<b>Elevation (M)*</b> 441.842		<b>Longitude</b> 93 43 39.0859068
<b>Northing (SFT)</b> 654,298.5306		<b>Ellipsoid Height (M):</b> 413.307
<b>Easting (SFT)</b> 802,114.0388		<b>Geoid Height (M):</b> -28.535
<b>Elevation (SFT)*</b> 1,449.610		

  

<b>Convergence Angle</b> -1 0 18.8806664	<b>Scale Factor</b> 0.999979337	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "12" SET FLUSH AND IN UTILITY LINE CUT EAST OF FENCE.
<b>Elevation Adjust. Factor</b> 0.9999306654	<b>Combined Adjust. Factor</b> 0.9999100038	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN EAST FACE OF 3" OAK TREE		11.06	36.3
<b>MK # 2</b>	60D NAIL IN WEST FACE OF 10" ELM TREE		12.54	41.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="NONE"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440113	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	200,096.4478				
<b>Easting (M)</b>	244,408.2517				
<b>Elevation (M)*</b>	402.376				
<b>Northing (SFT)</b>	656,483.0958				
<b>Easting (SFT)</b>	801,862.7391				
<b>Elevation (SFT)*</b>	1,320.129				

  

<b>Convergence Angle</b>	-1	0	20.9346958
<b>Scale Factor</b>	0.999980316		
<b>Elevation Adjust. Factor</b>	0.9999368581		
<b>Combined Adjust. Factor</b>	0.9999171753		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "13" FLUSH AND SOUTH OF PRIVATE ROAD AND SE OF LARGE CHICKEN BARN AND OLD FARM HOUSE.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN WEST FACE OF 6" ELM TREE		45.42	149.0	
<b>MK # 2</b>	60D NAIL IN NORTH FACE OF TELEPHONE POLE		27.95	91.7	
<b>MK # 3</b>	SOUTH OF CENTER LINE OF TRACK ROAD		4.12	13.5	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440114	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 199,023.3470		<b>Latitude</b> 36 6 54.0954324
<b>Easting (M)</b> 245,022.8000		<b>Longitude</b> 93 43 17.2927776
<b>Elevation (M)*</b> 453.092		<b>Ellipsoid Height (M):</b> 424.559
<b>Northing (SFT)</b> 652,962.4309		<b>Geoid Height (M):</b> -28.533
<b>Easting (SFT)</b> 803,878.9697		
<b>Elevation (SFT)*</b> 1,486.519		

  

<b>Convergence Angle</b> -1 0 6.1992635	<b>Location Description</b> STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "14".
<b>Scale Factor</b> 0.999978756	
<b>Elevation Adjust. Factor</b> 0.9999289001	
<b>Combined Adjust. Factor</b> 0.9999076577	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN SOUTH FACE OF 14" PINE TREE		35.46	116.4	<b>AZ Mark Station</b>
<b>MK # 2</b>	60D NAIL IN SW FACE OF 5" ELM TREE		30.39	99.7	<b>Geodetic Azimuth</b>
<b>MK # 3</b>	NONE				<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440115	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 199,327.2409		<b>Latitude</b> 36 7 4.1458440
<b>Easting (M)</b> 245,362.0880		<b>Longitude</b> 93 43 3.9399276
<b>Elevation (M)*</b> 417.064		<b>Ellipsoid Height (M):</b> 388.527
<b>Northing (SFT)</b> 653,959.4562		<b>Geoid Height (M):</b> -28.537
<b>Easting (SFT)</b> 804,992.1170		
<b>Elevation (SFT)*</b> 1,368.317		

  

<b>Convergence Angle</b>	0	59	58.4292517
<b>Scale Factor</b>	0.999979208		
<b>Elevation Adjust. Factor</b>	0.9999345533		
<b>Combined Adjust. Factor</b>	0.9999137627		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN NORTH FACE OF 20" ELM TREE		30.97	101.6
<b>MK # 2</b>	60D NAIL IN SOUTH FACE OF UTILITY POLE		17.91	58.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE  <b>Ref Mon # 2</b> NONE  <b>Ref Mon # 3</b> NONE	<b>Comments</b>       
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440116	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 198,652.3369		<b>Latitude</b> 36 6 42.5738952
<b>Easting (M)</b> 245,931.4430		<b>Longitude</b> 93 42 40.7070936
<b>Elevation (M)*</b> 419.966		<b>Ellipsoid Height (M):</b> 391.432
<b>Northing (SFT)</b> 651,745.2086		<b>Geoid Height (M):</b> -28.534
<b>Easting (SFT)</b> 806,860.0759		
<b>Elevation (SFT)*</b> 1,377.838		

  

<b>Convergence Angle</b>	0	59	44.9100859
<b>Scale Factor</b>	0.999978240		
<b>Elevation Adjust. Factor</b>	0.9999340980		
<b>Combined Adjust. Factor</b>	0.9999123394		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 4" BRACE POST		8.66	28.4	
MK # 2	60D NAIL IN POWER POLE		13.67	44.8	
MK # 3	60D NAIL IN 4" BRACE POST				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440117	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Highway Engineering	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 199,177.3790		<b>Latitude</b> 36 6 59.5972296
<b>Easting (M)</b> 245,915.8110		<b>Longitude</b> 93 42 41.6969568
<b>Elevation (M)*</b> 412.654		<b>Ellipsoid Height (M):</b> 384.116
		<b>Geoid Height (M):</b> -28.538

  

<b>Northing (SFT)</b> 653,467.7843		<b>Location Description</b>
<b>Easting (SFT)</b> 806,808.7899		STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "17" SET FLUSH IN GROUND.
<b>Elevation (SFT)*</b> 1,353.849		
<b>Convergence Angle</b> 0 59 45.4860864		
<b>Scale Factor</b> 0.999979003		
<b>Elevation Adjust. Factor</b> 0.9999352453		
<b>Combined Adjust. Factor</b> 0.9999142497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF UTILITY POLE		24.08	79.0	
MK # 2	60D NAIL IN NORTH FACE OF UTILITY POLE		24.20	79.4	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440118	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Brial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	198,841.1270	
<b>Easting (M)</b>	246,763.5060	
<b>Elevation (M)*</b>	423.770	
<b>Northing (SFT)</b>	652,364.5975	
<b>Easting (SFT)</b>	809,589.9359	
<b>Elevation (SFT)*</b>	1,390.319	

  

<b>Convergence Angle</b>	0	59	25.6292095
<b>Scale Factor</b>	0.999978535		
<b>Elevation Adjust. Factor</b>	0.9999335011		
<b>Combined Adjust. Factor</b>	0.9999120375		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN EAST FACE OF POLE		26.73	87.7
MK # 2	60D NAIL IN EAST FACE OF POLE		43.68	143.3
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    NONE Ref Mon # 2    NONE Ref Mon # 3    NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    6    49.1660820
<b>Longitude</b>	93    42    7.5726972
<b>Ellipsoid Height (M):</b>	395.231
<b>Geoid Height (M):</b>	-28.539

Location Description
STATION IS 5/8" REBAR WITH ALUMINUM CAP ON RIDGE SE OF US HIGHWAY 412 AND NORTH OF CHICKEN BARN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440119	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,368.3920	
<b>Easting (M)</b>	246,762.9710	
<b>Elevation (M)*</b>	392.138	
<b>Northing (SFT)</b>	654,094.4661	
<b>Easting (SFT)</b>	809,588.1807	
<b>Elevation (SFT)*</b>	1,286.539	

  

<b>Convergence Angle</b>	0	59	25.8537341
<b>Scale Factor</b>	0.999979304		
<b>Elevation Adjust. Factor</b>	0.9999384645		
<b>Combined Adjust. Factor</b>	0.9999177698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GAS METER		27.34	89.7	
MK # 2	60D NAIL IN NORTH		15.77	51.7	
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="NONE"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440120	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Bureau of Transportation	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	--	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 198,823.2650		<b>Latitude</b> 36 6 44.3652804
<b>Easting (M)</b> 239,412.7390		<b>Longitude</b> 93 47 1.4370828
<b>Elevation (M)*</b> 459.331		<b>Ellipsoid Height (M):</b> 430.831
<b>Northing (SFT)</b> 652,305.9953		<b>Geoid Height (M):</b> -28.397
<b>Easting (SFT)</b> 785,473.2945		
<b>Elevation (SFT)*</b> 1,506.988		

  

<b>Convergence Angle</b> -1 2 16.6286392	<b>Location Description</b>  STATION 0020 IS A 5/8" REBAR-ALUMINUM CAP STAMPED "20" DRIVEN FLUSH WITH GROUND EAST OF MADISON COUNTY ROAD #475, APPROXIMATELY 500' SOUTH OF THE INTERSECTION OF COUNTY ROAD #475 AND US HIGHWAY 412.
<b>Scale Factor</b> 0.999978320	
<b>Elevation Adjust. Factor</b> 0.9999279212	
<b>Combined Adjust. Factor</b> 0.9999062427	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN SE FACE OF 18" OAK TREE		13.51	44.3
<b>MK # 2</b>	60D NAIL IN WEST FACE OF FENCE POST		27.46	90.1
<b>MK # 3</b>	60D NAIL IN NE FACE OF 16" WHITE OAK		13.66	44.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440121	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,293.9669	
<b>Easting (M)</b>	239,398.3560	
<b>Elevation (M)*</b>	445.399	
<b>Northing (SFT)</b>	653,850.2897	
<b>Easting (SFT)</b>	785,426.1063	
<b>Elevation (SFT)*</b>	1,461.280	

  

<b>Convergence Angle</b>	-1	2	17.1616558
<b>Scale Factor</b>	0.999979004		
<b>Elevation Adjust. Factor</b>	0.9999301073		
<b>Combined Adjust. Factor</b>	0.9999091127		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SECTION CORNER 19-20-30-29					
MK # 2	60D NAIL IN N FACE OF 16" OAK TREE					
MK # 3	60D IN THE EAST FACE OF A HACKBERRY TREE					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440201	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,016.4710	
<b>Easting (M)</b>	240,216.1480	
<b>Elevation (M)*</b>	481.832	
<b>Northing (SFT)</b>	652,939.8719	
<b>Easting (SFT)</b>	788,109.1456	
<b>Elevation (SFT)*</b>	1,580.810	

  

<b>Convergence Angle</b>	-1	1	58.0195833
<b>Scale Factor</b>	0.999978621		
<b>Elevation Adjust. Factor</b>	0.9999243906		
<b>Combined Adjust. Factor</b>	0.9999030132		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D IN WEST FACE OF CORNER POST	95	19.73	64.7
<b>MK # 2</b>	60D NAIL IN A POLE	185	8.57	28.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NONE <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS NUMBER 440001    AHTD NUMBER 440201</td> </tr> </table>	Comments	ADS NUMBER 440001    AHTD NUMBER 440201
Comments			
ADS NUMBER 440001    AHTD NUMBER 440201			

  

Location Description			
MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 3/4" x 36" REBAR SET IN A CONCRETE POST APPROX 300' NORTH OF THE JCT OF US HIGHWAY 412 AND MADISON COUNTY ROAD 34 ON THE WEST SIDE OF HIGHWAY 34			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NGVD 29		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	6	51.1037352
<b>Longitude</b>	93	46	29.4572172
<b>Ellipsoid Height (M):</b>	439.662		
<b>Geoid Height (M):</b>	-28.518		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440202A	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
---------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 199,599.0619		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 240,249.3120		<b>Latitude</b> 36 7 10.0219080
<b>Elevation (M)*</b> 468.186		<b>Longitude</b> 93 46 28.5511656
<b>Northing (SFT)</b> 654,851.2556		<b>Ellipsoid Height (M):</b> 439.662
<b>Easting (SFT)</b> 788,217.9511		<b>Geoid Height (M):</b> -28.523
<b>Elevation (SFT)*</b> 1,536.040		

  

<b>Convergence Angle</b> -1 1 57.4923527	<b>Scale Factor</b> 0.999979473	<b>Location Description</b> MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 3/4" x 36" REBAR SET IN CONCRETE POST ON EAST SIDE OF MADISON CO ROAD #43.
<b>Elevation Adjust. Factor</b> 0.9999265317	<b>Combined Adjust. Factor</b> 0.9999060063	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	60D NAIL IN SOUTH GATE POST	5		36.39	119.4
<b>MK # 2</b>	60D NAIL AND SHINER ON E EDGE OF PVM	330		7.06	23.1
<b>MK # 3</b>	60D NAIL AND SHINER ON E EDGE OF PVM	215		6.44	21.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NONE	ADS NUMBER 440002A AHTD NUMBER 440202A
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440203	<b>Date Monumented</b> 7/1/1993	<b>Monumented By</b> Aerial Data Service	<b>County</b> MADISON	<b>Route</b> 412	<b>Job Number:</b> 9948
--------------------------	------------------------------------	---	--------------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	199,679.2110	
<b>Easting (M)</b>	244,019.9390	
<b>Elevation (M)*</b>	382.436	
<b>Northing (SFT)</b>	655,114.2114	
<b>Easting (SFT)</b>	800,588.7499	
<b>Elevation (SFT)*</b>	1,254.709	

  

<b>Convergence Angle</b>	-1	0	29.7987990
<b>Scale Factor</b>	0.999979690		
<b>Elevation Adjust. Factor</b>	0.9999399869		
<b>Combined Adjust. Factor</b>	0.9999196781		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
MONUMENT IS AN AHTD ALUMINUM CAP APPROX 100' NORTH OF GRAVEL ROAD EAST SIDE OF HIGHWAY 23 AND SOUTH OF BELOW REFERENCED MONUMENT.			

  

Location Reference Marks							
Description			Azimuth	Distance		AZ Mark Station	
				Meters	Feet		
MK # 1	REFLECTOR POST		170	27.38	89.8		
MK # 2	PK-SHINER ON EAST SIDE OF HIGHWAY 23		205	5.94	19.5		
MK # 3	PK-SHINER ON EAST SIDE OF HIGHWAY 23		335	5.11	16.7		

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	ADS NUMBER 440003 AHTD NUMBER 440203

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440204	<b>Date Monumented</b> 10/20/2014	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090423
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	202,018.9620	0.0030	
<b>Easting (M)</b>	243,758.3709	0.0030	
<b>Elevation (M)*</b>	402.365		
<b>Northing (SFT)</b>	662,790.5445		
<b>Easting (SFT)</b>	799,730.5885		
<b>Elevation (SFT)*</b>	1,320.091		

  

<b>Convergence Angle</b>	-1	0	36.8443952
<b>Scale Factor</b>	0.999983193		
<b>Elevation Adjust. Factor</b>	0.9999368599		
<b>Combined Adjust. Factor</b>	0.9999200539		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	8	30.5509164
<b>Longitude</b>	93	44	9.9571704
<b>Ellipsoid Height:</b>	374.492		
<b>Grid Northing (Meters)</b>	202,018.9609		
<b>Grid Easting (Meters)</b>	243,758.3608		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 1.45 MILES TO THE MARK ON THE RIGHT, 36.2 FEET NORTHEAST OF THE CENTERLINE AND SOUTHWEST 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440204" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: MOCS, ARLR</p> <p>Ref Mon # 2: ARFY</p> <p>Ref Mon # 3: ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440204A	<b>Date Monumented</b> 10/20/2014	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090423
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	202,563.6413	0.0020	
<b>Easting (M)</b>	243,630.5944	0.0020	
<b>Elevation (M)*</b>	395.532		
<b>Northing (SFT)</b>	664,577.5465		
<b>Easting (SFT)</b>	799,311.3751		
<b>Elevation (SFT)*</b>	1,297.673		

  

<b>Convergence Angle</b>	-1	0	40.0417573
<b>Scale Factor</b>	0.999984026		
<b>Elevation Adjust. Factor</b>	0.9999379320		
<b>Combined Adjust. Factor</b>	0.9999219590		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	8	48.1467552
<b>Longitude</b>	93	44	15.4518468
<b>Ellipsoid Height:</b>	367.658		
<b>Grid Northing (Meters)</b>	202,563.6416		
<b>Grid Easting (Meters)</b>	243,630.5850		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	335	34.00	111.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 MOCS, ARLR	ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440205	<b>Date Monumented</b> 10/20/2014	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090424
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	215,428.0579	0.0020	
<b>Easting (M)</b>	241,583.4326	0.0020	
<b>Elevation (M)*</b>	478.691		
<b>Northing (SFT)</b>	706,783.5533		
<b>Easting (SFT)</b>	792,594.9785		
<b>Elevation (SFT)*</b>	1,570.506		

  

<b>Convergence Angle</b>	-1	1	33.0476155
<b>Scale Factor</b>	1.000005858		
<b>Elevation Adjust. Factor</b>	0.9999248834		
<b>Combined Adjust. Factor</b>	0.9999307409		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	15	44.2666152
<b>Longitude</b>	93	45	46.5430752
<b>Ellipsoid Height:</b>	450.725		
<b>Grid Northing (Meters)</b>	215,428.0550		
<b>Grid Easting (Meters)</b>	241,583.4212		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY & LIGHT	303	26.20	86.0
MK # 2	TELEPHONE BOX	202	20.40	66.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1: MOCS, ARLR Ref Mon # 2: ARFY Ref Mon # 3: ARHR	<b>Comments</b> ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.
---	---

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO SOUTH ON HIGHWAY 23 0.35 MILES TO THE MARK ON THE RIGHT, 21.0 FEET SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 14.3 FEET OF FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440205" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	440205A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440205A	<b>Date Monumented</b> 10/20/2014	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090424
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	216,020.6055    0.0020
<b>Easting (M)</b>	241,483.7923    0.0020
<b>Elevation (M)*</b>	494.216

  

<b>Northing (SFT)</b>	708,727.6032	
<b>Easting (SFT)</b>	792,268.0752	
<b>Elevation (SFT)*</b>	1,621.439	

  

<b>Convergence Angle</b>	-1	1	35.6174294
<b>Scale Factor</b>	1.000006961		
<b>Elevation Adjust. Factor</b>	0.9999224475		
<b>Combined Adjust. Factor</b>	0.9999294079		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	16	3.4295772
<b>Longitude</b>	93	45	50.9592924
<b>Ellipsoid Height:</b>	466.237		
<b>Grid Northing (Meters)</b>	216,020.6043		
<b>Grid Easting (Meters)</b>	241,483.7818		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO SOUTH ON HIGHWAY 23 93 FEET TO THE MARK ON THE RIGHT, 19.4 FEET WEST OF THE EDGE OF THE PAVEMENT AND EAST 9.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440205A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	345	26.00	85.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	440205
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> MOCS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARHR	ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440206	<b>Date Monumented</b> 10/1/2015	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> CR3415	<b>Job Number:</b> 090451
--------------------------	-------------------------------------	------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	173,290.4220	0.0020	
<b>Easting (M)</b>	256,732.4640	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	568,536.9928		
<b>Easting (SFT)</b>	842,296.4256		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	55	24.1246369
<b>Scale Factor</b>	0.999949662		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	49	16.40	53.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARFY"/>	
Ref Mon # 2 <input type="text" value="ARHR"/>	
Ref Mon # 3 <input type="text" value="ARLR"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 53 5.6746356
<b>Longitude</b>	93 35 12.5444544
<b>Ellipsoid Height (M):</b>	571.179 0.0050
<b>Geoid Height (M):</b>	-27.854 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23N AND STATE HIGHWAY 16E, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 9.5 MILES TO COUNTY ROAD 3415 ON THE LEFT, TURN LEFT (NORTH) AND GO 2.0 MILES TO A FORK IN THE ROAD, BEAR RIGHT AND GO 1.6 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 18.6 FEET OF THE CENTERLINE OF THE GRAVEL ROAD AND 15.6 FEET SOUTHWEST OF A FIELD ROAD ENTRANCE AND 4 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "440206 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440206A	<b>Date Monumented</b> 10/1/2015	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> CR3415	<b>Job Number:</b> 090451
---------------------------	-------------------------------------	------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	173,740.4985	0.0020
<b>Easting (M)</b>	256,878.7899	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	570,013.6188	
<b>Easting (SFT)</b>	842,776.4965	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	55	20.8982551
<b>Scale Factor</b>	0.999950037		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	35	16.20	53.1
MK # 2	NORTH END OF GATE	305	53.70	176.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARFY"/>	
Ref Mon # 2 <input style="width: 150px;" type="text" value="ARHR"/>	
Ref Mon # 3 <input style="width: 150px;" type="text" value="ARLR"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 53 20.3526924
<b>Longitude</b>	93 35 6.9998820
<b>Ellipsoid Height (M):</b>	553.234 0.0050
<b>Geoid Height (M):</b>	-27.851 0.0050

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23N AND STATE HIGHWAY 16E, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 9.5 MILES TO COUNTY ROAD 3415 ON THE LEFT, TURN LEFT (NORTH) AND GO 2.0 MILES TO A FORK IN THE ROAD, BEAR RIGHT AND GO 1.9 MILES TO THE MARK ON THE RIGHT, EAST 15.2 FEET OF THE CENTERLINE OF THE GRAVEL ROAD, 14 FEET SOUTH OF A FIELD ROAD ENTRANCE ON THE EAST SIDE OF THE ROAD AND 8.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "440206A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440207	<b>Date Monumented</b> 5/8/2017	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> SR-74	<b>Job Number:</b> 090430
--------------------------	------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	188,451.5568	0.0020	
<b>Easting (M)</b>	228,985.0790	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	618,278.1493		
<b>Easting (SFT)</b>	751,261.8800		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	6	14.5568665
<b>Scale Factor</b>	0.999964402		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	120	3.06	10.0
MK # 2	CP WITH TRANS	157	14.33	47.0
MK # 3				

  

<b>AZ Mark Station</b>	440207A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440207A	<b>Date Monumented</b> 5/8/2017	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> SR-74	<b>Job Number:</b> 090430
---------------------------	------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	188,237.1708	0.0020	
<b>Easting (M)</b>	229,401.1697	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	617,574.7845		
<b>Easting (SFT)</b>	752,627.0043		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	6	4.7931273
<b>Scale Factor</b>	0.999964158		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARR V	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12B

**Latitude**    36    0    54.8953920

**Longitude**    93    53    33.5402448

**Ellipsoid Height (M):**    359.075    0.0040

**Geoid Height (M):**    -27.977    0.0040

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-74 AND SR-295, IN WESLEY, GO EAST ON SR-74 1.9 MILES TO THE STATION ON THE LEFT. 21.6' NORTH-EAST OF THE C/L OF THE HIGHWAY, 35.6' NORTH-WEST OF ASPHALT APRON AND 29' SOUTH-WEST OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "440207A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440208	<b>Date Monumented</b> 4/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 09X034, 090644
--------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 165,837.2592	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 249,800.6704	<b>0.0030</b>	<b>Latitude</b> 35 49 0.1645140
<b>Elevation (M)*</b>		<b>Longitude</b> 93 39 43.8700320
<b>Northing (SFT)</b> 544,084.4079		<b>Ellipsoid Height (M):</b> 524.745 0.0140
<b>Easting (SFT)</b> 819,554.3661		<b>Geoid Height (M):</b> -28.033 0.0140
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 58 2.0087539	<b>Scale Factor</b> 0.999944139	<b>Location Description</b>
<b>Elevation Adjust. Factor</b>		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 23, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 FOR 5.4 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 22.9' OF THE 3 C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 440208" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	218	4.69	15.4	440208A
MK # 2	RIGHT OF WAY MARKER	14	19.08	62.6	
MK # 3	RIGHT OF WAY MARKER	8	19.75	64.8	

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR, ARRV</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARFY	Ref Mon # 3	ARHR, ARRV	<b>Comments</b> STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV
Ref Mon # 1	ARFS						
Ref Mon # 2	ARFY						
Ref Mon # 3	ARHR, ARRV						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 440208A	<b>Date Monumented</b> 4/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> MADISON	<b>Route</b> 16	<b>Job Number:</b> 09X034
---------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	165,612.6857	0.0030
<b>Easting (M)</b>	250,221.0670	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	543,347.6197	
<b>Easting (SFT)</b>	820,933.6173	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	57	52.1770875
<b>Scale Factor</b>	0.999944001		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	128	33.04	108.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFS	STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450001	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095,R90097
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,643.6870	
<b>Easting (M)</b>	352,338.8530	
<b>Elevation (M)*</b>	145.423	
<b>Northing (SFT)</b>	710,771.8298	
<b>Easting (SFT)</b>	1,155,965.0536	
<b>Elevation (SFT)*</b>	477.109	

  

<b>Convergence Angle</b>	0	18	31.3495689
<b>Scale Factor</b>	1.000010599		
<b>Elevation Adjust. Factor</b>	0.9999771789		
<b>Combined Adjust. Factor</b>	0.9999877777		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH IN TOP OF METAL GUARD RAIL POS	300	4.22	13.9
<b>MK # 2</b>	PUNCH IN TOP OF METEL GUARD RAIL POS	71	4.31	14.2
<b>MK # 3</b>	SOUTHWEST CORNER OF BRIDGE	85	9.65	31.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HOMEPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="N 37"/>	
<b>Ref Mon # 3</b> <input type="text" value="TRI COUNTY"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 17 5.5500252
<b>Longitude</b>	92 31 49.8663588
<b>Ellipsoid Height (M):</b>	117.035
<b>Geoid Height (M):</b>	-28.361

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.45 KM (5.25 MI) TO THE WEST END OF THE BRIDGE OVER THE WHITE RIVER AND THE STATION ON THE RIGHT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 1.55 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.</p>

<b>AZ Mark Station</b>	030003
<b>Geodetic Azimuth</b>	102 26 35.19450
<b>Grid Azimuth</b>	102 45 06.70437



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450002	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,175.2050	
<b>Easting (M)</b>	348,817.0140	
<b>Elevation (M)*</b>	208.062	
<b>Northing (SFT)</b>	702,673.1517	
<b>Easting (SFT)</b>	1,144,410.4868	
<b>Elevation (SFT)*</b>	682.617	

  

<b>Convergence Angle</b>	0	19	53.1361288
<b>Scale Factor</b>	1.000005890		
<b>Elevation Adjust. Factor</b>	0.9999673494		
<b>Combined Adjust. Factor</b>	0.9999732392		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.80 METERS EAST OF A PAVED ENTRANCE TO THE CURIOSITY SHOP, 11.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "450002 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 394.740 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	83	35.00	114.8
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="HOMEPORT"/></p> <p>Ref Mon # 2: <input type="text" value="N 37"/></p> <p>Ref Mon # 3: <input type="text" value="TRI COUNTY"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450002A	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095,R90097
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,251.5040	
<b>Easting (M)</b>	348,429.7310	
<b>Elevation (M)*</b>	211.705	
<b>Northing (SFT)</b>	702,923.4760	
<b>Easting (SFT)</b>	1,143,139.8758	
<b>Elevation (SFT)*</b>	694.569	

  

<b>Convergence Angle</b>	0	20	2.1743171
<b>Scale Factor</b>	1.000006028		
<b>Elevation Adjust. Factor</b>	0.9999667777		
<b>Combined Adjust. Factor</b>	0.9999728055		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	109	32.50	106.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HOMEPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="N 37"/>	
<b>Ref Mon # 3</b> <input type="text" value="TRI COUNTY"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 15 47.2312332
<b>Longitude</b>	92 34 25.9496796
<b>Ellipsoid Height (M):</b>	183.312
<b>Geoid Height (M):</b>	-28.355

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.46 (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.40 METERS WEST OF A GRAVEL DRIVEWAY, 13.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "450002A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 394.740 METERS.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450003	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095,R90097
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,233.8910	
<b>Easting (M)</b>	344,723.0100	
<b>Elevation (M)*</b>	240.193	
<b>Northing (SFT)</b>	702,865.6907	
<b>Easting (SFT)</b>	1,130,978.7420	
<b>Elevation (SFT)*</b>	788.033	

  

<b>Convergence Angle</b>	0	21	28.5783731
<b>Scale Factor</b>	1.000005953		
<b>Elevation Adjust. Factor</b>	0.9999623073		
<b>Combined Adjust. Factor</b>	0.9999682601		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH CORNER OF A BRICK BUILDING	15	13.20	43.3
<b>MK # 2</b>	CONCRETE R/W MARKER	254	8.62	28.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HOMEPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="N 37"/>	
<b>Ref Mon # 3</b> <input type="text" value="TRI COUNTY"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 15 45.9337536
<b>Longitude</b>	92 36 54.4359924
<b>Ellipsoid Height (M):</b>	211.809
<b>Geoid Height (M):</b>	-28.346

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.06KM (5.01 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.95 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 2.10 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450003A	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095,R90097
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 214,564.7430		<b>Latitude</b> 36 15 56.7587880
<b>Easting (M)</b> 345,176.2500		<b>Longitude</b> 92 36 36.3614652
<b>Elevation (M)*</b> 233.289		<b>Ellipsoid Height (M):</b> 204.885
<b>Northing (SFT)</b> 703,951.1610		<b>Geoid Height (M):</b> -28.348
<b>Easting (SFT)</b> 1,132,465.7469		
<b>Elevation (SFT)*</b> 765.382		

  

<b>Convergence Angle</b> 0 21 18.0608215	<b>Location Description</b>
<b>Scale Factor</b> 1.000006576	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.66 KM (5.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.85 METERS NORTHEAST OF THE CENTER OF A CONCRETE DRIVEWAY TO THE KINGDOM HALL OF JEHOVAH'S WITNESS CHURCH, 11.75 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.41 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.</p>
<b>Elevation Adjust. Factor</b> 0.9999633907	
<b>Combined Adjust. Factor</b> 0.9999699664	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	0.55 METER PERSIMMON TREE	180	24.65	80.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOMEPORT	
<b>Ref Mon # 2</b> N 37	
<b>Ref Mon # 3</b> TRI COUNTY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450004	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,166.6520	
<b>Easting (M)</b>	341,325.8710	
<b>Elevation (M)*</b>	171.837	
<b>Northing (SFT)</b>	692,802.5908	
<b>Easting (SFT)</b>	1,119,833.2951	
<b>Elevation (SFT)*</b>	563.769	

  

<b>Convergence Angle</b>	0	22	47.2938750
<b>Scale Factor</b>	1.000000318		
<b>Elevation Adjust. Factor</b>	0.9999730339		
<b>Combined Adjust. Factor</b>	0.9999733519		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST OF A CHAIN LINK FENCE	44	6.12	20.1
<b>MK # 2</b>	CORNER POST OF A CHAIN LINK FENCE	126	30.55	100.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HOMEPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="N 37"/>	
<b>Ref Mon # 3</b> <input type="text" value="TRI COUNTY"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 14 5.7159384
<b>Longitude</b>	92 39 9.7094412
<b>Ellipsoid Height (M):</b>	143.479
<b>Geoid Height (M):</b>	-28.337

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.06 KM (1.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.00 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 5.98 METERS SOUTHWEST OF A WITNESS POST SET IN A CHAIN LINK FENCE AROUND THE R.E. OFFICE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 527.485 METERS.</p>

<b>AZ Mark Station</b>	450004A
<b>Geodetic Azimuth</b>	30 59 23.06583
<b>Grid Azimuth</b>	31 22 10.40985

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450004A	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> R90095,009916
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,617.0270	
<b>Easting (M)</b>	341,600.4520	
<b>Elevation (M)*</b>	181.338	
<b>Northing (SFT)</b>	694,280.1961	
<b>Easting (SFT)</b>	1,120,734.1496	
<b>Elevation (SFT)*</b>	594.940	

  

<b>Convergence Angle</b>	0	22	40.9646983
<b>Scale Factor</b>	1.000001128		
<b>Elevation Adjust. Factor</b>	0.9999715430		
<b>Combined Adjust. Factor</b>	0.9999726709		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	2	4.20	13.8
<b>MK # 2</b>	SOUTH END OF A CMP	56	14.15	46.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="HOMEPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="N 37"/>	
<b>Ref Mon # 3</b> <input type="text" value="TRI COUNTY"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 14 20.3860968
<b>Longitude</b>	92 38 58.8326820
<b>Ellipsoid Height (M):</b>	152.952
<b>Geoid Height (M):</b>	-28.338

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.65 METERS SOUTH-SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.57 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 3.05 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450005	<b>Date Monumented</b> 11/1/1999	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 412	<b>Job Number:</b> 290095,090342,090556.009911
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 211,110.0720		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 337,241.7100		<b>Latitude</b> 36 14 2.9714496
<b>Elevation (M)*</b> 235.985		<b>Longitude</b> 92 41 53.2455360
<b>Northing (SFT)</b> 692,616.9612		<b>Ellipsoid Height (M):</b> 207.630
<b>Easting (SFT)</b> 1,106,433.8436		<b>Geoid Height (M):</b> -28.334
<b>Elevation (SFT)*</b> 774.227		

  

<b>Convergence Angle</b> 0 24 22.4553859	<b>Location Description</b>
<b>Scale Factor</b> 1.000000167	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO WEST ON U.S. HIGHWAYS 412 AND 62 FOR 2.03 KM (1.26 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62, 7.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.56 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "450005 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.058 METERS.</p>
<b>Elevation Adjust. Factor</b> 0.9999629677	
<b>Combined Adjust. Factor</b> 0.9999631346	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	325	9.60	31.5	450005A
MK # 2	NONE				132 38 20.05055
MK # 3	NONE				133 02 42.57201

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOMEPORT	<p>Old Elev. 235.993m or 774.2537' was updated with Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37.</p>
Ref Mon # 2 N 37	
Ref Mon # 3 TRI COUNTY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450006	<b>Date Monumented</b> 1/10/2013	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 14	<b>Job Number:</b> 090342
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	206,895.9036	0.0167			
<b>Easting (M)</b>	339,329.2579	0.0148			
<b>Elevation (M)*</b>	202.913				
<b>Northing (SFT)</b>	678,790.9771				
<b>Easting (SFT)</b>	1,113,282.7403				
<b>Elevation (SFT)*</b>	665.725				

  

<b>Convergence Angle</b>	0	23	33.1380578
<b>Scale Factor</b>	0.999992895		
<b>Elevation Adjust. Factor</b>	0.9999681573		
<b>Combined Adjust. Factor</b>	0.9999610525		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	DOUBLE COMBINATION POLE	165	3.96	13.0
<b>MK # 2</b>	WATER VALVE	16	23.38	76.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> MOBR <b>Ref Mon # 2</b> P777 <b>Ref Mon # 3</b> ARM3	<b>Comments</b>  Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.
---	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 62/412, IN YELLVILLE, GO EAST ON HIGHWAY 14 2.15 MILES TO THE STATION MARK ON THE LEFT, EAST 21 FEET OF THE CENTERLINE OF THE HIGHWAY, 21 FEET SOUTH OF THE CENTERLINE OF A ASPHALT DRIVE WAY, AND WEST 27 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450006 2013" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	450006A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450006A	<b>Date Monumented</b> 1/10/2013	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 14	<b>Job Number:</b> 090342,090556
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	207,491.6428	0.0166			
<b>Easting (M)</b>	339,436.2449	0.0148			
<b>Elevation (M)*</b>	207.251				
<b>Northing (SFT)</b>	680,745.4981				
<b>Easting (SFT)</b>	1,113,633.7468				
<b>Elevation (SFT)*</b>	679.955				

  

<b>Convergence Angle</b>	0	23	30.7411057
<b>Scale Factor</b>	0.999993901		
<b>Elevation Adjust. Factor</b>	0.9999674767		
<b>Combined Adjust. Factor</b>	0.9999613779		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	352	12.65	41.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: MOBR	Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.
Ref Mon # 2: P777	
Ref Mon # 3: ARM3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450007	<b>Date Monumented</b> 4/7/2015	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 178	<b>Job Number:</b> 090422
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	215,932.4860	0.0020	
<b>Easting (M)</b>	345,999.2958	0.0020	
<b>Elevation (M)*</b>	197.119		
<b>Northing (SFT)</b>	708,438.4978		
<b>Easting (SFT)</b>	1,135,166.0230		
<b>Elevation (SFT)*</b>	646.715		

  

<b>Convergence Angle</b>	0	20	59.0689425
<b>Scale Factor</b>	1.000009168		
<b>Elevation Adjust. Factor</b>	0.9999690665		
<b>Combined Adjust. Factor</b>	0.9999782342		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD SIGNAL POLE	91	39.50	129.6
<b>MK # 2</b>	NEAREST RAIL	180	27.50	90.2
<b>MK # 3</b>	SOUTHEAST CORNER RR STATION	339	80.70	264.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN +0.0114'.
<b>Ref Mon # 2</b> ARM3	
<b>Ref Mon # 3</b> P777	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO WEST ON HIGHWAY 178 0.35 MILES TO THE MARK ON THE RIGHT, 61.4 FEET WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450007 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	450007A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450007A	<b>Date Monumented</b> 4/7/2015	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 178	<b>Job Number:</b> 090422
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	216,050.7023	0.0030			
<b>Easting (M)</b>	346,536.7332	0.0030			
<b>Elevation (M)*</b>	195.709				
<b>Northing (SFT)</b>	708,826.3458				
<b>Easting (SFT)</b>	1,136,929.2655				
<b>Elevation (SFT)*</b>	642.089				

  

<b>Convergence Angle</b>	0	20	46.5551308
<b>Scale Factor</b>	1.000009400		
<b>Elevation Adjust. Factor</b>	0.9999692878		
<b>Combined Adjust. Factor</b>	0.9999786875		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST CORNER 1-S-F	200	55.30	181.4
<b>MK # 2</b>	NORTHWEST CORNER 1-S-F	155	60.00	196.9
<b>MK # 3</b>	SOUTH OF NEAREST RAIL	180	13.00	42.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0024'.
<b>Ref Mon # 2</b> ARM3	
<b>Ref Mon # 3</b> P777	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 16 45.2364996
<b>Longitude</b>	92 35 42.2185920
<b>Ellipsoid Height (M):</b>	167.274 0.0200
<b>Geoid Height (M):</b>	-28.435 0.0200

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO WEST ON HIGHWAY 178 0.25 MILES TO ALFORD STREET AND TURN LEFT (EAST) AND GO 0.3 MILES TO THE MARK ON THE RIGHT, 91.7 FEET SOUTH OF THE CENTERLINE OF THE STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450007A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450008	<b>Date Monumented</b> 4/7/2015	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 178	<b>Job Number:</b> 090422
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	219,692.8540 0.0030
<b>Easting (M)</b>	345,511.2605 0.0020
<b>Elevation (M)*</b>	200.664

  

<b>Northing (SFT)</b>	720,775.6385	
<b>Easting (SFT)</b>	1,133,564.8605	
<b>Elevation (SFT)*</b>	658.346	

  

<b>Convergence Angle</b>	0	21	10.9878289
<b>Scale Factor</b>	1.000016501		
<b>Elevation Adjust. Factor</b>	0.9999685102		
<b>Combined Adjust. Factor</b>	0.9999850107		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.1 MILES TO THE MARK ON THE LEFT, 56.1 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 15.4 FEET OF A PRIVATE ASPHALT DRIVE AND 4.4 FEET NORTH OF A PIPE FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	19	29.80	97.8
MK # 2				
MK # 3				

<b>AZ Mark Station</b>	450008
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

**Area Reference Monuments  
(used for Processing)**

<b>Ref Mon # 1</b>	ARHR
<b>Ref Mon # 2</b>	ARM3
<b>Ref Mon # 3</b>	P777

**Comments**

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0267'.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 450008A	<b>Date Monumented</b> 4/7/2015	<b>Monumented By</b> AHTD	<b>County</b> MARION	<b>Route</b> 178	<b>Job Number:</b> 090422
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	220,269.7686 0.0030
<b>Easting (M)</b>	345,746.7089 0.0030
<b>Elevation (M)*</b>	207.255
<b>Northing (SFT)</b>	722,668.3991
<b>Easting (SFT)</b>	1,134,337.3274
<b>Elevation (SFT)*</b>	679.968

  

<b>Convergence Angle</b>	0 21 5.5785349
<b>Scale Factor</b>	1.000017661
<b>Elevation Adjust. Factor</b>	0.9999674760
<b>Combined Adjust. Factor</b>	0.9999851365

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH A GUY	3	57.90	190.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARHR	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0235'.
Ref Mon # 2 ARM3	
Ref Mon # 3 P777	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 19 1.9543512
<b>Longitude</b>	92 36 14.9105196
<b>Ellipsoid Height (M):</b>	178.829 0.0200
<b>Geoid Height (M):</b>	-28.418 0.0200

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.5 MILES TO THE MARK ON THE RIGHT, 42.1 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 5 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460001	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> 82	<b>Job Number:</b> 030349, RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	486,420.9271	
<b>Easting (M)</b>	216,846.0290	
<b>Elevation (M)*</b>	115.560	
<b>Northing (SFT)</b>	1,595,865.9917	
<b>Easting (SFT)</b>	711,435.6801	
<b>Elevation (SFT)*</b>	379.134	

  

<b>Convergence Angle</b>	-1	6	8.5762249
<b>Scale Factor</b>	0.999973730		
<b>Elevation Adjust. Factor</b>	0.9999818652		
<b>Combined Adjust. Factor</b>	0.9999555956		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 3.21 KM (2.00 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.5 METERS NORTH OF THE CENTERLINE OF HWY. 82, 41.0 METERS WEST OF A CONCRETE DRIVEWAY, 52.10 METERS EAST OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	283	14.90	48.9
MK # 2	fire hydrant	270	45.30	148.6
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	460026, 460026A	<p>3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, &amp; C307.</p>
Ref Mon # 2	ARHP, B 307	
Ref Mon # 3	TXMA, 460001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460001A	<b>Date Monumented</b> 4/13/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	486,357.1511	
<b>Easting (M)</b>	217,527.2530	
<b>Elevation (M)*</b>	107.201	
<b>Northing (SFT)</b>	1,595,656.7532	
<b>Easting (SFT)</b>	713,670.6626	
<b>Elevation (SFT)*</b>	351.709	

  

<b>Convergence Angle</b>	-1	5	53.7926140
<b>Scale Factor</b>	0.999973814		
<b>Elevation Adjust. Factor</b>	0.9999831770		
<b>Combined Adjust. Factor</b>	0.9999569914		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	73	23.70	77.8
<b>MK # 2</b>	PIPELINE CROSSING SIGN	233	4.50	14.8
<b>MK # 3</b>	SOUTHWEST CORNER OF RC BOX HEADW	58	33.70	110.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> GARLAND	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 25 46.1937972
<b>Longitude</b>	93 57 44.2458540
<b>Ellipsoid Height (M):</b>	79.717
<b>Geoid Height (M):</b>	-27.484

Location Description
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA. GO EAST ON HWY. 82 FOR 3.89 KM (2.41 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 28.5 METERS EAST OF A PAVED DRIVEWAY AND 1.70 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460002	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018,030497
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	486,308.2567	0.0030	
<b>Easting (M)</b>	219,957.4608	0.0030	
<b>Elevation (M)*</b>	120.048		
<b>Northing (SFT)</b>	1,595,496.3389		
<b>Easting (SFT)</b>	721,643.7693		
<b>Elevation (SFT)*</b>	393.859		

  

<b>Convergence Angle</b>	-1	5	1.1278358
<b>Scale Factor</b>	0.999973818		
<b>Elevation Adjust. Factor</b>	0.9999811608		
<b>Combined Adjust. Factor</b>	0.9999549793		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	25	46.1211132
<b>Longitude</b>	93	56	10.1365440
<b>Ellipsoid Height:</b>	92.575		
<b>Grid Northing (Meters)</b>	486,308.6261		
<b>Grid Easting (Meters)</b>	219,957.8060		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN 12" PERSIMMON TREE	57	17.00	55.8		
MK # 2	RIGHT OF WAY MONUMENT	274	22.30	73.2		
MK # 3	NBC IN 12" DOUBLE GUM TREE	18	22.30	73.2		

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARCM (HOPEPORT) <b>Ref Mon # 2</b> ARHP (GARLAND) <b>Ref Mon # 3</b> TXMA (X 303)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 &amp; CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM &amp; ARHP.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.			

  

Location Description	
FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 6.46 KM (4.02 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.2 METERS NORTH OF THE CENTERLINE OF HWY. 82, 32 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 28.4 METERS SOUTHWEST OF THE DOOR OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	460002A	
<b>Geodetic Azimuth</b>	91 23 07.667279	
<b>Grid Azimuth</b>	92 28 08.690259	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460002A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018,030497
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality <b>Elevation Datum:</b> NAVD 88 <b>Geoid Datum:</b> GEOID12A <b>Latitude</b> 33 25 45.6581676 <b>Longitude</b> 93 55 47.9357904 <b>Ellipsoid Height (M):</b> 83.730 0.0050 <b>Geoid Height (M):</b> -26.898 0.0050																							
<b>Horizontal Datum</b> NAD 83 (2011)																									
<b>Northing (M)</b>	486,283.5375 0.0030																								
<b>Easting (M)</b>	220,530.9259 0.0030																								
<b>Elevation (M)*</b>	110.637																								
<b>Northing (SFT)</b>	1,595,415.2393	<b>Location Description</b>  FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA. GO EAST ON HWY. 82 FOR 7.03 KM (4.37 MILES) TO THE STATION ON THE LEFT. THE STATION 15 METERS NORTH OF THE CENTERLINE OF HWY. 82, 25.5 METERS EAST OF THE CENTER OF A DRIVEWAY, 18.30 METERS WEST OF THE CENTER OF A DRIVEWAY, 20.3 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.																							
<b>Easting (SFT)</b>	723,525.2127																								
<b>Elevation (SFT)*</b>	362.982																								
<b>Convergence Angle</b>	-1 4 48.6949546	<b>Location Reference Marks</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Description</th> <th rowspan="2">Azimuth</th> <th colspan="2">Distance</th> </tr> <tr> <th>Meters</th> <th>Feet</th> </tr> </thead> <tbody> <tr> <td>MK # 1</td> <td>NBC IN LIGHT POLE</td> <td>309</td> <td>12.30</td> <td>40.4</td> </tr> <tr> <td>MK # 2</td> <td>TELEPHONE JUNCTION BOX</td> <td>73</td> <td>25.40</td> <td>83.3</td> </tr> <tr> <td>MK # 3</td> <td>NONE</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Description	Azimuth	Distance		Meters	Feet	MK # 1	NBC IN LIGHT POLE	309	12.30	40.4	MK # 2	TELEPHONE JUNCTION BOX	73	25.40	83.3	MK # 3	NONE			
	Description						Azimuth	Distance																	
				Meters	Feet																				
MK # 1	NBC IN LIGHT POLE			309	12.30	40.4																			
MK # 2	TELEPHONE JUNCTION BOX	73	25.40	83.3																					
MK # 3	NONE																								
<b>Scale Factor</b>	0.999973841																								
<b>Elevation Adjust. Factor</b>	0.9999826377																								
<b>Combined Adjust. Factor</b>	0.9999564792																								

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>	NAD 83 (1986)			
<b>Latitude</b>	33	25	45.6700764	
<b>Longitude</b>	93	55	47.9229276	
<b>Ellipsoid Height:</b>	83.177			
<b>Grid Northing (Meters)</b>	486,283.8981			
<b>Grid Easting (Meters)</b>	220,531.2650			

  

Area Reference Monuments (used for Processing)				
Ref Mon # 1	ARCM (HOPEPORT)			
Ref Mon # 2	ARHP (GARLAND)			
Ref Mon # 3	TXMA (X 303)			

  

Comments	
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460003	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018,030497
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	486,168.7658	0.0030	
<b>Easting (M)</b>	224,152.7361	0.0030	
<b>Elevation (M)*</b>	84.076		
<b>Northing (SFT)</b>	1,595,038.6925		
<b>Easting (SFT)</b>	735,407.7684		
<b>Elevation (SFT)*</b>	275.840		

  

<b>Convergence Angle</b>	-1	3	30.1904985
<b>Scale Factor</b>	0.999973919		
<b>Elevation Adjust. Factor</b>	0.9999868059		
<b>Combined Adjust. Factor</b>	0.9999607252		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	25	44.1386184
<b>Longitude</b>	93	53	27.6584892
<b>Ellipsoid Height:</b>	56.629		
<b>Grid Northing (Meters)</b>	486,169.1081		
<b>Grid Easting (Meters)</b>	224,153.0860		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	72	8.70	28.5
MK # 2	PLASTIC GAS LINE MARKING SIGN	272	18.00	59.1
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM (HOPEPORT) <b>Ref Mon # 2</b> ARHP (GARLAND) <b>Ref Mon # 3</b> TXMA (X 303)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 &amp; CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM &amp; ARHP.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.			

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12A

**Latitude**    33    25    44.1273000

**Longitude**    93    53    27.6717876

**Ellipsoid Height (M):**    57.170    0.0050

**Geoid Height (M):**    -26.903    0.0050

  

**Location Description**

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 10.734 KM (6.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.5 METERS NORTH OF THE INTERSECTION OF CO. RD. NO. 15 (LEADING SOUTH) WITH HWY. 82 AND 1.90 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460003A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018,030497
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	486,154.1075	0.0030			
<b>Easting (M)</b>	224,519.8010	0.0030			
<b>Elevation (M)*</b>	85.523				
<b>Northing (SFT)</b>	1,594,990.6010				
<b>Easting (SFT)</b>	736,612.0471				
<b>Elevation (SFT)*</b>	280.587				

  

<b>Convergence Angle</b>	-1	3	22.2330288
<b>Scale Factor</b>	0.999973932		
<b>Elevation Adjust. Factor</b>	0.9999865788		
<b>Combined Adjust. Factor</b>	0.9999605112		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	25	43.8818448
<b>Longitude</b>	93	53	13.4392164
<b>Ellipsoid Height:</b>	58.073		
<b>Grid Northing (Meters)</b>	486,154.4211		
<b>Grid Easting (Meters)</b>	224,520.1930		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NOAA BENCH MARK # D 307	84	35.00	114.8
MK # 2	TELEPHONE JUNCTION BOX	268	42.90	140.7
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM (HOPEPORT) <b>Ref Mon # 2</b> ARHP (GARLAND) <b>Ref Mon # 3</b> TXMA (X 303)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 &amp; CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM &amp; ARHP.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.			

  

Location Description	
FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA. GO EAST ON HWY. 82 FOR 11.09 KM (6.89 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.4 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.40 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	460003
<b>Geodetic Azimuth</b>	271 14 05.22773
<b>Grid Azimuth</b>	272 17 27.51488

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460004	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	485,605.8072	
<b>Easting (M)</b>	225,990.4090	
<b>Elevation (M)*</b>	81.991	
<b>Northing (SFT)</b>	1,593,191.7191	
<b>Easting (SFT)</b>	741,436.8669	
<b>Elevation (SFT)*</b>	268.999	

  

<b>Convergence Angle</b>	-1	2	50.1584963
<b>Scale Factor</b>	0.999974795		
<b>Elevation Adjust. Factor</b>	0.9999871331		
<b>Combined Adjust. Factor</b>	0.9999619284		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	277	17.80	58.4
<b>MK # 2</b>	CENTER OF DOUBLE GATE TO FIELD	100	21.50	70.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE PORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 25 26.9533272
<b>Longitude</b>	93 52 16.1465628
<b>Ellipsoid Height (M):</b>	54.549
<b>Geoid Height (M):</b>	-27.442

Location Description
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA. GO EAST ON HWY. 82 FOR 12.67 KM (7.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.6 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 21.5 METERS WEST OF A DRIVEWAY AND 1.28 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460004A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	485,709.5322	
<b>Easting (M)</b>	225,611.4120	
<b>Elevation (M)*</b>	82.567	
<b>Northing (SFT)</b>	1,593,532.0236	
<b>Easting (SFT)</b>	740,193.4409	
<b>Elevation (SFT)*</b>	270.889	

  

<b>Convergence Angle</b>	-1	2	58.4093194
<b>Scale Factor</b>	0.999974634		
<b>Elevation Adjust. Factor</b>	0.9999870427		
<b>Combined Adjust. Factor</b>	0.9999616770		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	117	8.90	29.2
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	283	21.55	70.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 460004	THE COORDINATES ON THIS STATION WERE ARRIVED AT BY SOLAR OBSERVATION.
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460005	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,846.9141	
<b>Easting (M)</b>	228,186.5020	
<b>Elevation (M)*</b>	76.005	
<b>Northing (SFT)</b>	1,590,701.9173	
<b>Easting (SFT)</b>	748,641.8820	
<b>Elevation (SFT)*</b>	249.360	

  

<b>Convergence Angle</b>	-1	2	2.2908082
<b>Scale Factor</b>	0.999975996		
<b>Elevation Adjust. Factor</b>	0.9999880725		
<b>Combined Adjust. Factor</b>	0.9999640688		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	276	30.10	98.8
<b>MK # 2</b>	NBC IN FENCE CORNER W/RAILROAD TIE POST	90	18.60	61.0
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	G 310 NOAA
<b>Geodetic Azimuth</b>	83 26 38.004366
<b>Grid Azimuth</b>	84 28 40.21834

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460006	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,259.8361	
<b>Easting (M)</b>	232,174.3420	
<b>Elevation (M)*</b>	70.634	
<b>Northing (SFT)</b>	1,588,775.8123	
<b>Easting (SFT)</b>	761,725.3204	
<b>Elevation (SFT)*</b>	231.738	

  

<b>Convergence Angle</b>	-1	0	35.6893273
<b>Scale Factor</b>	0.999976866		
<b>Elevation Adjust. Factor</b>	0.9999889153		
<b>Combined Adjust. Factor</b>	0.9999657816		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE CORNER MADE W/RAILROAD	270	16.60	54.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 46.8747936
<b>Longitude</b>	93 48 15.8903424
<b>Ellipsoid Height (M):</b>	43.236
<b>Geoid Height (M):</b>	-27.398

  

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 ON THE WEST EDGE OF GARLAND CITY, GO WEST ON HWY. 82 FOR 11.67 KM (7.25 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTERLINE OF HWY. 82, 22.8 METERS EAST OF THE CENTER OF CO. RD. NO. 27 AND 1.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460006A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 484,189.5331		<b>Latitude</b> 33 24 45.0524088
<b>Easting (M)</b> 232,978.9730		<b>Longitude</b> 93 47 44.7048240
<b>Elevation (M)*</b> 70.198		<b>Ellipsoid Height (M):</b> 42.805
		<b>Geoid Height (M):</b> -27.393

  

<b>Northing (SFT)</b> 1,588,545.1598	<b>Easting (SFT)</b> 764,365.1806	<b>Location Description</b>
<b>Elevation (SFT)*</b> 230.308		<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN NORTHWEST GARLAND CITY, GO WEST ON HWY. 82 FOR 10.86 KM (6.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.9 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 22.4 METERS EAST OF THE CENTER OF CO. RD. NO. 61, 12.2 METERS NORTHEAST OF THE NORTHEAST CORNER OF A ONE STORY BRICK BUILDING AND 0.77 METERS NORTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>Convergence Angle</b> -1 0 18.2350831		
<b>Scale Factor</b> 0.999976961		
<b>Elevation Adjust. Factor</b> 0.9999889838		
<b>Combined Adjust. Factor</b> 0.9999659450		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN GATE POST	92	16.80	55.1		460006
MK # 2	TELEPHONE JUNCTION BOX	263	28.30	92.8		273 59 17.90401
MK # 3	NONE					274 59 36.27983

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460007	<b>Date Monumented</b> 4/13/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,060.2561	
<b>Easting (M)</b>	235,360.3030	
<b>Elevation (M)*</b>	69.939	
<b>Northing (SFT)</b>	1,588,121.0236	
<b>Easting (SFT)</b>	772,177.9274	
<b>Elevation (SFT)*</b>	229.458	

  

<b>Convergence Angle</b>	0	59	26.6094322
<b>Scale Factor</b>	0.999977110		
<b>Elevation Adjust. Factor</b>	0.9999890244		
<b>Combined Adjust. Factor</b>	0.9999661347		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	170	2.20	7.2		
MK # 2	SOUTH-SOUTHWEST HEADWALL OF RC BO	30	12.90	42.3		
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 42.2030016
<b>Longitude</b>	93 46 12.4652136
<b>Ellipsoid Height (M):</b>	42.561
<b>Geoid Height (M):</b>	-27.378

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 8.449 KM (5.25 MILES) TO THE STATION ON ON THE LEFT. THE STATION IS 17.25 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.8 METERS EAST OF A FIELD ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460007A	<b>Date Monumented</b> 4/13/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,091.3951	
<b>Easting (M)</b>	234,739.6210	
<b>Elevation (M)*</b>	69.650	
<b>Northing (SFT)</b>	1,588,223.1854	
<b>Easting (SFT)</b>	770,141.5732	
<b>Elevation (SFT)*</b>	228.510	

  

<b>Convergence Angle</b>	0	59	40.0643524
<b>Scale Factor</b>	0.999977075		
<b>Elevation Adjust. Factor</b>	0.9999890698		
<b>Combined Adjust. Factor</b>	0.9999661450		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	95	8.60	28.2
<b>MK # 2</b>	WEST END OF METAL CULVERT UNDER FI	63	15.50	50.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 42.8645844
<b>Longitude</b>	93 46 36.5051352
<b>Ellipsoid Height (M):</b>	42.268
<b>Geoid Height (M):</b>	-27.382

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 9.093 KM (5.65 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.8 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 17.7 METERS WEST OF THE ENTRANCE TO A CULTIVATED FIELD AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460008	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	483,763.7101	
<b>Easting (M)</b>	237,760.9770	
<b>Elevation (M)*</b>	70.866	
<b>Northing (SFT)</b>	1,587,148.1056	
<b>Easting (SFT)</b>	780,054.1387	
<b>Elevation (SFT)*</b>	232.500	

  

<b>Convergence Angle</b>	0	58	34.5040348
<b>Scale Factor</b>	0.999977544		
<b>Elevation Adjust. Factor</b>	0.9999888789		
<b>Combined Adjust. Factor</b>	0.9999664232		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 12" HACKBERRY USED AS FENCE P	120	22.00	72.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 33.9163416
<b>Longitude</b>	93 44 39.3684396
<b>Ellipsoid Height (M):</b>	43.506
<b>Geoid Height (M):</b>	-27.360

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.874 KM (3.65 MILES) TO THE INTERSECTION WITH HWY. 296 TO THE RIGHT AND THE STATION ON THE RIGHT. THE STATION IS 47.4 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 26.5 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 296 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460008A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	483,004.3532	
<b>Easting (M)</b>	237,716.4830	
<b>Elevation (M)*</b>	70.205	
<b>Northing (SFT)</b>	1,584,656.7821	
<b>Easting (SFT)</b>	779,908.1613	
<b>Elevation (SFT)*</b>	230.331	

  

<b>Convergence Angle</b>	0	58	35.1873916
<b>Scale Factor</b>	0.999978845		
<b>Elevation Adjust. Factor</b>	0.9999889827		
<b>Combined Adjust. Factor</b>	0.9999678279		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.15 KM (3.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.2 METERS WEST OF THE CENTERLINE OF HWY. 82, 6.7 METERS SOUTH OF A DRIVEWAY TO A SHOP BUILDING AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL GATE POST	347	4.50	14.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT <b>Ref Mon # 2</b> GARLAND <b>Ref Mon # 3</b> X 303	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460009	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	480,320.2951	
<b>Easting (M)</b>	238,458.8490	
<b>Elevation (M)*</b>	69.808	
<b>Northing (SFT)</b>	1,575,850.8348	
<b>Easting (SFT)</b>	782,343.7404	
<b>Elevation (SFT)*</b>	229.028	

  

<b>Convergence Angle</b>	0	58	18.1243538
<b>Scale Factor</b>	0.999983529		
<b>Elevation Adjust. Factor</b>	0.9999890450		
<b>Combined Adjust. Factor</b>	0.9999725741		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 2.092 KM (1.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.8 METERS WEST OF THE CENTERLINE OF HWY. 82, 10.5 METERS EAST OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	181	29.40	96.5
MK # 2	TELEPHONE JUNCTION BOX	354	19.00	62.3
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPEPORT</p> <p>Ref Mon # 2: GARLAND</p> <p>Ref Mon # 3: X 303</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460009A	<b>Date Monumented</b> 4/14/1994	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	479,931.1461	
<b>Easting (M)</b>	238,907.5180	
<b>Elevation (M)*</b>	69.626	
<b>Northing (SFT)</b>	1,574,574.1018	
<b>Easting (SFT)</b>	783,815.7486	
<b>Elevation (SFT)*</b>	228.431	

  

<b>Convergence Angle</b>	0	58	8.2679200
<b>Scale Factor</b>	0.999984212		
<b>Elevation Adjust. Factor</b>	0.9999890735		
<b>Combined Adjust. Factor</b>	0.9999732857		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WESTERN MOST PIPE POST IN GATE AREA	105	12.25	40.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	
<b>Ref Mon # 2</b> GARLAND	
<b>Ref Mon # 3</b> X 303	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 22 30.1649880
<b>Longitude</b>	93 43 52.4923428
<b>Ellipsoid Height (M):</b>	42.306
<b>Geoid Height (M):</b>	-27.320

  

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 1.448 KM (0.90 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 19.6 METERS WEST OF THE CENTER OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460010	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 482,691.8131		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 212,435.5590		<b>Latitude</b> 33 23 44.0318112
<b>Elevation (M)*</b> 101.291		<b>Longitude</b> 94 0 58.5208296
<b>Northing (SFT)</b> 1,583,631.3901		<b>Ellipsoid Height (M):</b> 73.823
<b>Easting (SFT)</b> 696,965.6632		<b>Geoid Height (M):</b> -27.468
<b>Elevation (SFT)*</b> 332.319		

  

<b>Convergence Angle</b> -1 7 42.5265085	<b>Scale Factor</b> 0.999980189	<b>Location Description</b> 3/4" X 36' REBAR WITH AN AHTD ALUMINUM CAP SET ON THE EAST SIDE OF HWY. 71, ACROSS FROM A1 SALVAGE. NOTE: TARGET 160 IS APPROX. 300' SSW OF STATION.
<b>Elevation Adjust. Factor</b> 0.9999841044	<b>Combined Adjust. Factor</b> 0.9999642937	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN THE SOUTH FACE OF POLE	040 00 00	40.66	133.4
MK # 2	60D BAIL I BASE OF A POLE	210 00 00	22.68	74.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460010A	<b>Date Monumented</b> 	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 483,199.2862		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 211,816.1610		<b>Latitude</b> 33 24 0.1040292
<b>Elevation (M)*</b> 95.807		<b>Longitude</b> 94 1 22.8726084
<b>Northing (SFT)</b> 1,585,296.3248		<b>Ellipsoid Height (M):</b> 68.330
<b>Easting (SFT)</b> 694,933.5215		<b>Geoid Height (M):</b> -27.477
<b>Elevation (SFT)*</b> 314.327		

  

<b>Convergence Angle</b> -1 7 56.1559723	<b>Location Description</b> 3/4" x 36" REBAR WITH AN AHTD ALUMINUM CAP SET ON THE SW SIDE OF HWY. 71.
<b>Scale Factor</b> 0.999979331	
<b>Elevation Adjust. Factor</b> 0.9999849650	
<b>Combined Adjust. Factor</b> 0.9999642963	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	60D NAIL IN EAST FACE OF POLE	300 00 00	80.89	265.4	<b>AZ Mark Station</b> 460010
<b>MK # 2</b>	60D NAIL IN NORTH FACE OF POLE	140 00 00	13.15	43.1	<b>Geodetic Azimuth</b> 130 27 36.00
<b>MK # 3</b>	60D NAIL IN NORTH FACE OF POLE	180 00 00	32.19	105.6	<b>Grid Azimuth</b> 129 19 40.00

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460011	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 480,964.1062		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 213,036.9200		<b>Latitude</b> 33 22 48.3468888
<b>Elevation (M)*</b> 91.399		<b>Longitude</b> 94 0 33.9426324
<b>Northing (SFT)</b> 1,577,963.0718		<b>Ellipsoid Height (M):</b> 63.956
<b>Easting (SFT)</b> 698,938.6284		<b>Geoid Height (M):</b> -27.444
<b>Elevation (SFT)*</b> 299.865		

  

<b>Convergence Angle</b> -1 7 28.7703204	<b>Location Description</b>  2 1/2" AHTD ALUMINUM CAP-GPS SURVEY-STAMPED "460011" AND SET ON A 3/4" X 36" REBAR. AND IS IN A CONCRETE POST 0.7 MILES SOUTH FROM JCT. OF HWY. 71 AND COUNTY ROAD 47.
<b>Scale Factor</b> 0.999983210	
<b>Elevation Adjust. Factor</b> 0.9999856567	
<b>Combined Adjust. Factor</b> 0.9999688670	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TO CORNER POST	020 00 00		51.21	168.0
MK # 2	BENT 40D NAIL IN EAST FACE OF CORNER POST	190 00 00		25.39	83.3
MK # 3	TO WITNESS POST	270 00 00		2.77	9.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> 
<b>Ref Mon # 1</b> 	
<b>Ref Mon # 2</b> 	
<b>Ref Mon # 3</b> 	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460011A	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 481,390.1721		<b>Geoid Datum:</b>
<b>Easting (M)</b> 213,049.6090		<b>Latitude</b> 33 23 2.1819552
<b>Elevation (M)*</b> 89.545		<b>Longitude</b> 94 0 33.7753368
<b>Northing (SFT)</b> 1,579,360.9230		<b>Ellipsoid Height (M):</b> 62.081
<b>Easting (SFT)</b> 698,980.2589		<b>Geoid Height (M):</b> -27.464
<b>Elevation (SFT)*</b> 293.782		

  

<b>Convergence Angle</b> -1 7 28.6766866	<b>Location Description</b> 2 1/2" AHTD ALUMINUM CAP-GPSSURVEY-SET ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST. 0.5 MILE SOUTH OF JCT. OF HWY. 71 AND COUNTY ROAD 47-3.5' NORTH OF SOUTH END OF GUARD RAIL.
<b>Scale Factor</b> 0.999982453	
<b>Elevation Adjust. Factor</b> 0.9999859477	
<b>Combined Adjust. Factor</b> 0.9999684009	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHISELED + ON TOP AR S. END OF BRIDGE	000 00 00	15.24	50.0
<b>MK # 2</b>	AHTD 2 1/2" ALUM. BENCH MARK DISC	020 00 00	17.77	58.3
<b>MK # 3</b>	40D NAIL IN TOP OF 9" CREOSOTE POST	190 00 00	11.52	37.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460012	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	477,731.3361	
<b>Easting (M)</b>	214,115.8360	
<b>Elevation (M)*</b>	99.473	
<b>Northing (SFT)</b>	1,567,356.8919	
<b>Easting (SFT)</b>	702,478.3719	
<b>Elevation (SFT)*</b>	326.354	

  

<b>Convergence Angle</b>	-1	7	4.0462469
<b>Scale Factor</b>	0.999989058		
<b>Elevation Adjust. Factor</b>	0.9999843897		
<b>Combined Adjust. Factor</b>	0.9999734479		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	60D NAIL IN A 10" PINE	030 00 00	27.83	91.3
<b>MK # 2</b>	40D NAIL IN A 12" PINE	105 00 00	21.58	70.8
<b>MK # 3</b>	TO TARGET #142	180 00 00	30.45	99.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460012A	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 478,583.1091		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 214,173.7570		<b>Latitude</b> 33 21 31.7990736
<b>Elevation (M)*</b> 97.869		<b>Longitude</b> 93 59 48.1708716
<b>Northing (SFT)</b> 1,570,151.4171		<b>Ellipsoid Height (M):</b> 70.414
<b>Easting (SFT)</b> 702,668.4011		<b>Geoid Height (M):</b> -27.454
<b>Elevation (SFT)*</b> 321.090		

  

<b>Convergence Angle</b> -1 7 3.1522922	<b>Scale Factor</b> 0.999987481	<b>Location Description</b> 2 1/2" AHTD ALUMINUM CAP-STAMPED "460012A" SET ON A 3/4" X 36" REBAR, AND SET ON THE EAST SIDE OF COUNTY ROAD 237. 5.6' TO AHTD WITNESS POST
<b>Elevation Adjust. Factor</b> 0.9999846415	<b>Combined Adjust. Factor</b> 0.9999721227	

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO MAILBOX RT. 1 BOX 1610	260 00 00	16.25	53.3
<b>MK # 2</b>	TO TELEPHONE RISER	015 00 00	3.51	11.5
<b>MK # 3</b>	TO WITNESS POLE	090 00 00	1.71	5.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460013	<b>Date Monumented</b>	<b>Monumented By</b> Brial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	------------------------	--	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 476,807.7851		<b>Geoid Datum:</b>
<b>Easting (M)</b> 215,950.5820		<b>Latitude</b> 33 20 35.3042376
<b>Elevation (M)*</b> 88.472		<b>Longitude</b> 93 58 38.1302760
<b>Northing (SFT)</b> 1,564,326.8749		<b>Ellipsoid Height (M):</b> 61.049
<b>Easting (SFT)</b> 708,497.8678		<b>Geoid Height (M):</b> -27.431
<b>Elevation (SFT)*</b> 290.262		

  

<b>Convergence Angle</b> -1 6 23.9512231	<b>Location Description</b>  2 1/2" AHTD ALUMINUM CAP ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST-STAMPED "460013"- TO REACH FROM JCT. OF HWY. 237 AND CR 234-GO EAST ON 234 1.0 MILE TO A CURVE NORTH-CONTINUE N. 0.2 MILE TO A DIRT RD. EAST-TURN RT. AND GO 0.25 MILE TO A PIPELINE CLEARING-0.15 MILE TO STATION.
<b>Scale Factor</b> 0.999990720	
<b>Elevation Adjust. Factor</b> 0.9999861161	
<b>Combined Adjust. Factor</b> 0.9999768362	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	40D NAIL IN THE EAST FACE OF A 12" PINE	295 00 00	26.30	86.3	
MK # 2	"T" POST ON THE N. SIDE OF DEER STAND	220 00 00	8.23	27.0	
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460013A	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 476,457.6621		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 215,798.4710		<b>Latitude</b> 33 20 23.8463628
<b>Elevation (M)*</b> 88.746		<b>Longitude</b> 93 58 43.7500056
<b>Northing (SFT)</b> 1,563,178.1797		<b>Ellipsoid Height (M):</b> 61.329
<b>Easting (SFT)</b> 707,998.8169		<b>Geoid Height (M):</b> -27.428
<b>Elevation (SFT)*</b> 291.161		

  

<b>Convergence Angle</b> -1 6 27.0965335	<b>Location Description</b> 2 1/2" AHTD ALUMINUM CAP ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST STAMPED "460013A"-AND IS SOUTH OF STATION 460013 0.25 MILE.
<b>Scale Factor</b> 0.999991386	
<b>Elevation Adjust. Factor</b> 0.9999860731	
<b>Combined Adjust. Factor</b> 0.9999774592	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	40D NAIL IN THE EAST FACE OF 7" PINE	320 00 00	26.67	87.5	<b>AZ Mark Station</b> 460013
<b>MK # 2</b>	TO TARGET 136	150 00 00	13.27	43.5	<b>Geodetic Azimuth</b> 024 35 24.10
<b>MK # 3</b>	40D NAIL IN THE W. FACE OF A 10" WALNU	080 00 00	37.22	122.1	<b>Grid Azimuth</b> 023 28 57.00

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460016A	<b>Date Monumented</b>	<b>Monumented By</b> Brial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	------------------------	--	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 464,661.1090		<b>Geoid Datum:</b>
<b>Easting (M)</b> 224,110.4050		<b>Latitude</b> 33 14 6.1070244
<b>Elevation (M)*</b> 79.761		<b>Longitude</b> 93 53 13.9621668
<b>Northing (SFT)</b> 1,524,475.6551		<b>Ellipsoid Height (M):</b> 52.526
<b>Easting (SFT)</b> 735,268.8871		<b>Geoid Height (M):</b> -27.303
<b>Elevation (SFT)*</b> 261.683		

  

<b>Convergence Angle</b> -1 3 22.5173514	<b>Location Description</b>  2 1/2" AHTD ALUMINUM CAP SET ON A 3/4" X 36" REBAR IN CONCRETE, 0.1' BELOW THE GROUND, STAMPED "460016A" IN THE WEST R/W OF HWY. 71. -1.7 MILES SOUTH OF JCT. COUNTY ROAD 9 IN FOUKE OR 0.7 MILE NORTH OF JCT. OF HWY. 71 AND HWY. 134.
<b>Scale Factor</b> 1.000015045	
<b>Elevation Adjust. Factor</b> 0.9999874831	
<b>Combined Adjust. Factor</b> 1.0000025279	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO CENTERLINE OF HWY. 71	090 00 00	17.98	59.0
<b>MK # 2</b>	TO 40D NAIL IN NE FACE OF CEDAR TREE	250 00 00	31.23	102.4
<b>MK # 3</b>	TO 40D NAIL IN TOP OF CORNERPOST	320 00 00	11.73	38.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460017	<b>Date Monumented</b>	<b>Monumented By</b> trial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 463,509.8100		<b>Geoid Datum:</b>
<b>Easting (M)</b> 224,755.3070		<b>Latitude</b> 33 13 29.1288900
<b>Elevation (M)*</b> 77.715		<b>Longitude</b> 93 52 48.2409876
<b>Northing (SFT)</b> 1,520,698.4350		<b>Ellipsoid Height (M):</b> 50.809
<b>Easting (SFT)</b> 737,384.7030		<b>Geoid Height (M):</b> -26.906
<b>Elevation (SFT)*</b> 254.970		

  

<b>Convergence Angle</b> -1 3 8.1214470	<b>Location Description</b> 5/8" REBAR-2 1/2" AHTD ALUMINUM CAP -FLUSH -SET IN A CONCRETE POST AND STAMPED "460017". -THE STATION IS ON THE SOUTH SIDE OF HWY. 134 AND IS 0.4 EAST OF HWY. 71.
<b>Scale Factor</b> 1.000017539	
<b>Elevation Adjust. Factor</b> 0.9999878041	
<b>Combined Adjust. Factor</b> 1.0000053429	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO P. K. AND SHINER	340 00 00	7.44	24.4
<b>MK # 2</b>	TO 60D NAIL IN A POWER POLE	100 00 00	22.74	74.6
<b>MK # 3</b>	TO 60D NAIL IN 6" BENT OAK TREE	194 00 00	12.74	41.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460017A	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 463,489.5820		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 225,405.5370		<b>Latitude</b> 33 13 28.8592968
<b>Elevation (M)*</b> 77.861		<b>Longitude</b> 93 52 23.1193452
<b>Northing (SFT)</b> 1,520,632.0703		<b>Ellipsoid Height (M):</b> 50.961
<b>Easting (SFT)</b> 739,517.9993		<b>Geoid Height (M):</b> -26.900
<b>Elevation (SFT)*</b> 255.449		

  

<b>Convergence Angle</b> -1 2 54.0610977	<b>Scale Factor</b> 1.000017558	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, AND ON THE SOUTH SIDE OF HWY. 134, AND IS EAST OF HWY. 71.
<b>Elevation Adjust. Factor</b> 0.9999877812	<b>Combined Adjust. Factor</b> 1.0000053390	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO 60D NAIL IN A POWER POLE	070 00 00	12.54	41.2
<b>MK # 2</b>	TO 60D NAIL IN A 12" PINE	160 00 00	13.78	45.2
<b>MK # 3</b>	TO 60D NAIL IN A 30" OAK TREE	315 00 00	27.92	91.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text"/>	
<b>Ref Mon # 2</b> <input type="text"/>	
<b>Ref Mon # 3</b> <input type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460018	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
--------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 460,814.1450		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 224,852.7760		<b>Latitude</b> 33 12 1.7042040
<b>Elevation (M)*</b> 76.978		<b>Longitude</b> 93 52 42.5672004
<b>Northing (SFT)</b> 1,511,854.4074		<b>Ellipsoid Height (M):</b> 50.077
<b>Easting (SFT)</b> 737,704.4826		<b>Geoid Height (M):</b> -26.901
<b>Elevation (SFT)*</b> 252.552		

  

<b>Convergence Angle</b> -1 3 4.9458811	<b>Scale Factor</b> 1.000023562	<b>Location Description</b> 5/8" REBAT -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, STAMPED "460018A" AND SET ON THE EAST SIDE OF HWY. 71. - TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE FO NORTH 7.9 MILES TO THE STATION ON THE RIGHT.
<b>Elevation Adjust. Factor</b> 0.9999879198	<b>Combined Adjust. Factor</b> 1.0000114815	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	TO 60D NAIL IN POST AT TELE. RISER		025 00 00	22.80	74.8
<b>MK # 2</b>	60D NAIL IN WEST FACE OF 8" ELM TREE		120 00 00	21.31	69.9
<b>MK # 3</b>	TO THE EDGE OF HWY. 71		270 00 00	3.32	10.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460018A	<b>Date Monumented</b> 	<b>Monumented By</b> erial Data Servic	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> NA
---------------------------	----------------------------	---	-------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 461,220.5870		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 224,649.8550		<b>Latitude</b> 33 12 14.7735756
<b>Elevation (M)*</b> 77.702		<b>Longitude</b> 93 52 50.6886528
<b>Northing (SFT)</b> 1,513,187.8758		<b>Ellipsoid Height (M):</b> 50.843
<b>Easting (SFT)</b> 737,038.7326		<b>Geoid Height (M):</b> -26.859
<b>Elevation (SFT)*</b> 254.927		

  

<b>Convergence Angle</b> -1 3 9.4913824	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, AND IS ON THE WEST SIDE OF HWY. 71. -TO REACH FROM INT. OF HWY/ 71 AND 160 AR DODRIDGE FO NORTH 8.15 MILES TO THE STATION ON THE LEFT.
<b>Scale Factor</b> 1.000022650	
<b>Elevation Adjust. Factor</b> 0.9999878062	
<b>Combined Adjust. Factor</b> 1.0000104559	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO MAILBOX	195 00 00	18.01	59.1
<b>MK # 2</b>	TO "RED" GAS PIPE	275 00 00	13.30	43.6
<b>MK # 3</b>	TO 60D NAIL IN A 20" PINE TREE	315 00 00	23.20	76.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 	
<b>Ref Mon # 2</b> 	
<b>Ref Mon # 3</b> 	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460019	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
--------------------------	------------------------	---	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 457,811.4560		<b>Geoid Datum:</b>
<b>Easting (M)</b> 224,495.6270		<b>Latitude</b> 33 10 24.0449016
<b>Elevation (M)*</b> 75.646		<b>Longitude</b> 93 52 54.2230428
<b>Northing (SFT)</b> 1,502,003.0852		<b>Ellipsoid Height (M):</b> 48.694
<b>Easting (SFT)</b> 736,532.7362		<b>Geoid Height (M):</b> -26.952
<b>Elevation (SFT)*</b> 248.182		

  

<b>Convergence Angle</b> -1 3 11.4695476	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD SLUMINUM CAP SET IN CONCRETE ON THE EAST SIDE OF HWY. 71 AND IS STAMPED "460019". - 1.4' WEST OF AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DIDRIDGE GO NORTH 5.90 MILES TO THE STATION ON THE RIGHT.
<b>Scale Factor</b> 1.000030498	
<b>Elevation Adjust. Factor</b> 0.9999881288	
<b>Combined Adjust. Factor</b> 1.0000186265	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A FENCE POST	170 00 00	6.77	22.2
MK # 2	TO P. K. AND SHINER AT EDGE OF HWY. 71	285 00 00	4.45	14.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460019A	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
---------------------------	------------------------	----------------------	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 457,546.4440		<b>Geoid Datum:</b>
<b>Easting (M)</b> 224,331.6070		<b>Latitude</b> 33 10 15.3465708
<b>Elevation (M)*</b> 74.146		<b>Longitude</b> 93 53 0.3643836
<b>Northing (SFT)</b> 1,501,133.6250		<b>Ellipsoid Height (M):</b> 47.207
<b>Easting (SFT)</b> 735,994.6140		<b>Geoid Height (M):</b> -26.939
<b>Elevation (SFT)*</b> 243.261		

  

<b>Convergence Angle</b> -1 3 14.9067988	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, STAMPED"460019A". SET ON THE WEST SIDE OF HWY. 71 EAST OF A AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH 5.75 MILES TO THE STATION ON THE LEFT.
<b>Scale Factor</b> 1.000031127	
<b>Elevation Adjust. Factor</b> 0.9999883642	
<b>Combined Adjust. Factor</b> 1.0000194908	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO MAILBOX	165 00 00	45.87	150.5
MK # 2	TO 60D NAIL IN TOP OF FENCE POST	280 00 00	9.14	30.0
MK # 3	TO 60D NAIL IN A 4" PINE TREE	315 00 00	12.13	39.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460020	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
--------------------------	------------------------	---	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 453,519.2680		<b>Geoid Datum:</b>
<b>Easting (M)</b> 223,097.4910		<b>Latitude</b> 33 8 3.9137352
<b>Elevation (M)*</b> 64.397		<b>Longitude</b> 93 53 45.1089960
<b>Northing (SFT)</b> 1,487,921.1318		<b>Ellipsoid Height (M):</b> 37.547
<b>Easting (SFT)</b> 731,945.6851		<b>Geoid Height (M):</b> -26.849
<b>Elevation (SFT)*</b> 211.276		

  

<b>Convergence Angle</b> -1 3 39.9499417	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN A CONCRETE AND IS STAMPED "460020", SET ON THE EAST SIDE OF HWY. 71, TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE GO NORTH 3.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.4' WEST OF AHTD WITNESS POST.
<b>Scale Factor</b> 1.000040838	
<b>Elevation Adjust. Factor</b> 0.9999898941	
<b>Combined Adjust. Factor</b> 1.0000307317	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO 60D NAIL IN POWER POLE	060 00 00	11.96	39.2
<b>MK # 2</b>	TO P. K. AND SHINER	275 00 00	19.29	63.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460020A	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
---------------------------	------------------------	---	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 453,519.2680		<b>Geoid Datum:</b>
<b>Easting (M)</b> 223,097.4910		<b>Latitude</b> 33 8 3.9137352
<b>Elevation (M)*</b> 68.230		<b>Longitude</b> 93 53 45.1089960
<b>Northing (SFT)</b> 1,487,921.1318		<b>Ellipsoid Height (M):</b> 41.387
<b>Easting (SFT)</b> 731,945.6851		<b>Geoid Height (M):</b> -26.843
<b>Elevation (SFT)*</b> 223.851		

  

<b>Convergence Angle</b> -1 3 39.9499417	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE AND ON THE WEST SIDE OF HWY. 71, SOUTH OF BRIDGE 0.85 MILE AND NORTH OF RENE'S DOLLS AND CRAFTS, 1.9' EAST OF AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE GO NORTH FOR 3.0 MILES TO THE STATION.
<b>Scale Factor</b> 1.000040838	
<b>Elevation Adjust. Factor</b> 0.9999892926	
<b>Combined Adjust. Factor</b> 1.0000301302	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO SIGN POST "SCHOOL BUS STOP AHEAD"	195 00 00	12.50	41.0
<b>MK # 2</b>	TO 60D NAIL IN TOP OF FENCE POST	270 00 00	16.61	54.5
<b>MK # 3</b>	TO 60D NAIL IN A 4" ELM 6' HIGH	300 00 00	17.89	58.7

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460021	<b>Date Monumented</b>	<b>Monumented By</b> Brial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
--------------------------	------------------------	--	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 451,936.9899		<b>Geoid Datum:</b>
<b>Easting (M)</b> 223,072.6000		<b>Latitude</b> 33 7 12.5494932
<b>Elevation (M)*</b> 102.743		<b>Longitude</b> 93 53 44.9387052
<b>Northing (SFT)</b> 1,482,729.9410		<b>Ellipsoid Height (M):</b> 75.855
<b>Easting (SFT)</b> 731,864.0218		<b>Geoid Height (M):</b> -26.858
<b>Elevation (SFT)*</b> 337.083		

  

<b>Convergence Angle</b> -1 3 39.8546315	<b>Location Description</b> 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE EAST SIDE OF HWY. 71 AND IS STAMPED "460021", -TO REACH FRFROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE GO NORTH FOR 1.95 MILES TO THE STATION ON THE RIGHT.
<b>Scale Factor</b> 1.000044742	
<b>Elevation Adjust. Factor</b> 0.9999838765	
<b>Combined Adjust. Factor</b> 1.0000286178	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO 60D NAIL IN FENCE POST	091 00 00	3.26	10.7
<b>MK # 2</b>	TO R/W MARKER	135 00 00	3.06	10.0
<b>MK # 3</b>	TO 60D NAIL IN CORNER POST	185 00 00	1.46	4.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460021A	<b>Date Monumented</b>	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> I-49	<b>Job Number:</b> I-49
---------------------------	------------------------	---	-------------------------	----------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 451,479.0799		<b>Geoid Datum:</b>
<b>Easting (M)</b> 222,796.8780		<b>Latitude</b> 33 6 57.5232192
<b>Elevation (M)*</b> 90.431		<b>Longitude</b> 93 53 55.2446124
<b>Northing (SFT)</b> 1,481,227.6146		<b>Ellipsoid Height (M):</b> 63.594
<b>Easting (SFT)</b> 730,959.4239		<b>Geoid Height (M):</b> -26.837
<b>Elevation (SFT)*</b> 296.689		

  

<b>Convergence Angle</b> -1 3 45.6227518	<b>Scale Factor</b> 1.000045895	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999858086	<b>Combined Adjust. Factor</b> 1.0000317030	5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE WEST SIDE OF HWY. 71 AND IS STAMPED "460021A". - 1.5' EAST OF AHTD WITNESS POST, -TO REACH FROM THE INT. OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 1.60 MILES TO THE STATION ON THE LEFT.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	TO 60D NAIL IN POST AT TELE. RISER	000 00 00	5.73	18.8		
MK # 2	TO MAILBOX	055 00 00	6.98	22.9		
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460022	<b>Date Monumented</b> 4/8/2003	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> 160	<b>Job Number:</b> R30079
--------------------------	------------------------------------	---	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	448,738.6230	
<b>Easting (M)</b>	223,375.0110	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,472,236.6323	
<b>Easting (SFT)</b>	732,856.1819	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	3	32.0510407
<b>Scale Factor</b>	1.000052802		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A 10" PINE TREE	190 00 00	12.77	41.9
MK # 2	TO TELE. CABLE SIGN POLE	215 00 00	8.99	29.5
MK # 3	TO P. K. AND SHINER AT EDGE OF HWY. 16	285 00 00	5.61	18.4

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    NEW BOSTON; LA GPS 8 & 9 Ref Mon # 2    AHTD HOPE Ref Mon # 3    AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS states elevation is 85.895 meter but has no documentation.</td> </tr> </table>	Comments	ADS states elevation is 85.895 meter but has no documentation.
Comments			
ADS states elevation is 85.895 meter but has no documentation.			

  

Location Description	
5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE SOUTH SIDE OF HWY. 160 AND IS STAMPED "460022" AND IS NORTH OF WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. AND 160 GO EAST ON HWY. 160 FOR 0.55 MILE TO THE STATION ON THE RIGHT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460022A	<b>Date Monumented</b> 4/8/2003	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> 160	<b>Job Number:</b> R30079
---------------------------	------------------------------------	---	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	448,818.2549	
<b>Easting (M)</b>	223,729.9400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,472,497.8913	
<b>Easting (SFT)</b>	734,020.6448	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	3	24.4241352
<b>Scale Factor</b>	1.000052582		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TO SIGN POLE	085 00 00	5.11	16.7
<b>MK # 2</b>	TO TELEPHONE RISER	135 00 00	9.05	29.7
<b>MK # 3</b>	TO AHTD R/W POST	225 00 00	11.92	39.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NEW BOSTON; LA GPS 8 & 9 <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS states elevation is 94.745 meter but has no documentation.</td> </tr> </table>	Comments	ADS states elevation is 94.745 meter but has no documentation.
Comments			
ADS states elevation is 94.745 meter but has no documentation.			

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    5    31.7324364
<b>Longitude</b>	93    53    17.3690196
<b>Ellipsoid Height (M):</b>	68.209
<b>Geoid Height (M):</b>	-26.469

  

Location Description
5/8" REBAR -2 1/2" ALUMINUM AHTD CAP SET IN CONCRETE ON THE SOUTH SIDE OF HWY. 160 AND IS STAMPED "460022A", -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 GO EAST ON HWY. 160 FOR 0.75 MILE TO THE STATION ON THE RIGHT. - 2.1' NORTH OF AHTD WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460023A	<b>Date Monumented</b> 4/8/2003	<b>Monumented By</b> Aerial Data Service	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> R30079
---------------------------	------------------------------------	---	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	447,260.5009	
<b>Easting (M)</b>	222,636.4250	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,467,387.1600	
<b>Easting (SFT)</b>	730,433.0044	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	3	47.3962025
<b>Scale Factor</b>	1.000056654		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	TO MAILBOX	080 00 00	13.05	42.8		
MK # 2	TO AERIAL TARGET 3501	210 00 00	6.10	20.0		
MK # 3	TO 60D NAIL IN 12" PINE TREE 5' HIGH	315 00 00	24.42	80.1		

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    NEW BOSTON; LA GPS 8 & 9 Ref Mon # 2    AHTD HOPE Ref Mon # 3    AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS states elevation is 71.566 meter but has no documentation.</td> </tr> </table>	Comments	ADS states elevation is 71.566 meter but has no documentation.
Comments			
ADS states elevation is 71.566 meter but has no documentation.			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF DODDRIDGE, GO SOUTH ON HIGHWAY 71 1.2 MILES TO THE STATION ON THE RIGHT. 6.1 METERS WEST OF THE CENTERLINE OF THE HIGHWAY, 24 METERS SOUTHWEST OF A POWER POLE, 15 METERS NORTHWEST OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460023A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND. 2.2' EAST OF AHTD WITNESS POST	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    4    40.5226704
<b>Longitude</b>	93    53    58.4132388
<b>Ellipsoid Height (M):</b>	71.566
<b>Geoid Height (M):</b>	-26.770

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460025	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 296	<b>Job Number:</b> 030295,30108,030100
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	492,925.4272	
<b>Easting (M)</b>	215,938.5240	
<b>Elevation (M)*</b>	98.776	
<b>Northing (SFT)</b>	1,617,206.1724	
<b>Easting (SFT)</b>	708,458.3075	
<b>Elevation (SFT)*</b>	324.069	

  

<b>Convergence Angle</b>	-1	6	30.9617889
<b>Scale Factor</b>	0.999963565		
<b>Elevation Adjust. Factor</b>	0.9999844990		
<b>Combined Adjust. Factor</b>	0.9999480646		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEW BOSTON <b>Ref Mon # 2</b> De QUEEN CORS <b>Ref Mon # 3</b> AHTD HOPE, TEXARKANA	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 18.3608124
<b>Longitude</b>	93 58 50.6560620
<b>Ellipsoid Height (M):</b>	71.847
<b>Geoid Height (M):</b>	-26.869

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	460025A
<b>Geodetic Azimuth</b>	271 15 17
<b>Grid Azimuth</b>	272 21 48

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460025A	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 296	<b>Job Number:</b> 030295,30108,030100
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	492,957.2191	
<b>Easting (M)</b>	215,168.2280	
<b>Elevation (M)*</b>	91.023	
<b>Northing (SFT)</b>	1,617,310.4763	
<b>Easting (SFT)</b>	705,931.0947	
<b>Elevation (SFT)*</b>	298.631	

  

<b>Convergence Angle</b>	-1	6	47.6731324
<b>Scale Factor</b>	0.999963540		
<b>Elevation Adjust. Factor</b>	0.9999857158		
<b>Combined Adjust. Factor</b>	0.9999492563		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	291	4.70	15.4
MK # 2	POWER POLE	282	19.20	63.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEW BOSTON <b>Ref Mon # 2</b> De QUEEN CORS <b>Ref Mon # 3</b> AHTD HOPE, TEXARKANA	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 29 18.9077928
<b>Longitude</b>	93 59 20.5142388
<b>Ellipsoid Height (M):</b>	64.096
<b>Geoid Height (M):</b>	-26.870

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST, LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF A GRAVEL DRIVE, 9.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 3.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460026	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 245	<b>Job Number:</b> 06,030295,030108,030342,03
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,135.4872	
<b>Easting (M)</b>	213,625.8400	
<b>Elevation (M)*</b>	107.464	
<b>Northing (SFT)</b>	1,598,210.3443	
<b>Easting (SFT)</b>	700,870.7767	
<b>Elevation (SFT)*</b>	352.572	

  

<b>Convergence Angle</b>	-1	7	18.6366504
<b>Scale Factor</b>	0.999972662		
<b>Elevation Adjust. Factor</b>	0.9999831357		
<b>Combined Adjust. Factor</b>	0.9999557981		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY WIRE	350	10.90	35.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NEW BOSTON	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 26 8.9997360
<b>Longitude</b>	94 0 15.8367924
<b>Ellipsoid Height (M):</b>	80.598
<b>Geoid Height (M):</b>	-26.823

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 245 LOCATED IN TEXARKANA, GO SOUTH ON STATE HIGHWAY 245 FOR 0.90 MILES TO THE STATION ON THE RIGHT. THE STATION IS 19.5 METERS WEST OF THE EDGE OF ASPHALT, 1.59 METERS EAST OF A WEBB WIRE FENCE LINE, AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460026 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460026A	<b>Date Monumented</b> 2/10/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 245	<b>Job Number:</b> 06,030295,030108,030342,03
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,802.5442	
<b>Easting (M)</b>	213,525.0560	
<b>Elevation (M)*</b>	107.397	
<b>Northing (SFT)</b>	1,600,398.8471	
<b>Easting (SFT)</b>	700,540.1212	
<b>Elevation (SFT)*</b>	352.352	

  

<b>Convergence Angle</b>	-1	7	21.1031918
<b>Scale Factor</b>	0.999971583		
<b>Elevation Adjust. Factor</b>	0.9999831462		
<b>Combined Adjust. Factor</b>	0.9999547297		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 245 LOCATED IN TEXARKANA, GO SOUTH ON STATE HIGHWAY 245 FOR 0.45 MILES TO THE STATION ON THE LEFT ACROSS THE DIVIDED HIGHWAY SET ATOP A HIGH BANK. THE STATION IS 22.4 METERS EAST OF THE EDGE OF THE ASPHALT AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 460026A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460026
<b>Geodetic Azimuth</b>	170 17 09
<b>Grid Azimuth</b>	171 24 30

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460027	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> I 30	<b>Job Number:</b> 306,030295,30108,030100, 030101
--------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 491,387.8509	<b>0.0010</b>	<b>Latitude</b> 33 28 26.3465256
<b>Easting (M)</b> 212,599.7291	<b>0.0010</b>	<b>Longitude</b> 94 0 58.7967948
<b>Elevation (M)*</b> 104.304		<b>Ellipsoid Height (M):</b> 77.324 0.0040
<b>Northing (SFT)</b> 1,612,161.6408		<b>Geoid Height (M):</b> -26.950 0.0040
<b>Easting (SFT)</b> 697,504.2779		
<b>Elevation (SFT)*</b> 342.204		

  

<b>Convergence Angle</b> -1 7 42.6809637	<b>Location Description</b>
<b>Scale Factor</b> 0.999965981	<p>TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.60 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.80 METERS SOUTH OF THE EDGE OF WEST BOUND LAND, 7.20 METERS NORTH OF THE EDGE OF EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460027 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999836316	
<b>Combined Adjust. Factor</b> 0.9999496131	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b> NAD 83 (1997)	<b>Latitude</b> 33 28 26.3465508	<b>Longitude</b> 94 0 58.7976912	<b>Ellipsoid Height:</b> 77.373
<b>Grid Northing (Meters)</b> 491,387.8521	<b>Grid Easting (Meters)</b> 212,599.7060		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM (NEW BOSTON) <b>Ref Mon # 2</b> ARDQ (De QUEEN CORS) <b>Ref Mon # 3</b> ARHP, TXMV (AHTD HOPE, T	SUPERCEDED ELEVATION 104.2879m BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003 & SUPERCEDED GEOID HT. -26.857m. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY CREW S5103 IN NOV. 2022 FOR JOB #030575 FROM TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS BY CREW S5112 IN SEPT. 2020 FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460027A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> I 30	<b>Job Number:</b> 030306,030295,30108,030100
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	491,283.5811	
<b>Easting (M)</b>	212,141.7010	
<b>Elevation (M)*</b>	108.290	
<b>Northing (SFT)</b>	1,611,819.5490	
<b>Easting (SFT)</b>	696,001.5640	
<b>Elevation (SFT)*</b>	355.282	

  

<b>Convergence Angle</b>	-1	7	52.5634257
<b>Scale Factor</b>	0.999966154		
<b>Elevation Adjust. Factor</b>	0.9999830060		
<b>Combined Adjust. Factor</b>	0.9999491606		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END GUARD RAIL POST	91	22.20	72.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 NEW BOSTON	ELEVATION BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003. Mark is disturbed as per S5103 in Nov 2006
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460028	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> N/A	<b>Job Number:</b> 30108,030295
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,376.1651	
<b>Easting (M)</b>	210,702.8260	
<b>Elevation (M)*</b>	82.536	
<b>Northing (SFT)</b>	1,628,527.4683	
<b>Easting (SFT)</b>	691,280.8550	
<b>Elevation (SFT)*</b>	270.786	

  

<b>Convergence Angle</b>	-1	8	25.9458512
<b>Scale Factor</b>	0.999958722		
<b>Elevation Adjust. Factor</b>	0.9999870476		
<b>Combined Adjust. Factor</b>	0.9999457702		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	213	4.70	15.4
MK # 2	CONCRETE HEAD WALL	100	26.50	86.9
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 31 7.0113684
<b>Longitude</b>	94 2 16.0982196
<b>Ellipsoid Height (M):</b>	55.611
<b>Geoid Height (M):</b>	-26.900

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 /71 AND STATE HIGHWAY 296 LOCATED NORTH OF TEXARKANA, GO NORTH ON U.S. HIGHWAY 59 /71 FOR 2.00 MILES TO THE JUNCTION OF MILLER COUNTY ROAD 55 ON THE RIGHT, TURN RIGHT (EAST) AND GO 0.32 MILES ON COUNTY ROAD 55 TO THE STATION ON THE LEFT. THE STATION I 29.30 METERS WEST OF A GRAVEL DRIVE, 6.40 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS NORTH OF THE CENTER OF COUNTY ROAD 55, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460028 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	460028A
<b>Geodetic Azimuth</b>	268 26 58
<b>Grid Azimuth</b>	269 35 24

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460028A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> 030295,30108
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,372.3912	
<b>Easting (M)</b>	210,175.2900	
<b>Elevation (M)*</b>	82.541	
<b>Northing (SFT)</b>	1,628,515.0868	
<b>Easting (SFT)</b>	689,550.0973	
<b>Elevation (SFT)*</b>	270.805	

  

<b>Convergence Angle</b>	-1	8	37.3836907
<b>Scale Factor</b>	0.999958742		
<b>Elevation Adjust. Factor</b>	0.9999870467		
<b>Combined Adjust. Factor</b>	0.9999457893		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 /71 AND STATE HIGHWAY 296 LOCATED NORTH OF TEXARKANA, GO NORTH ON U.S. HIGHWAY 59 /71 FOR 2.00 MILES TO THE JUNCTION OF MILLER COUNTY ROAD 55 AND THE STATION ON THE RIGHT. THE STATION IS 45.30 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 16.30 METERS SOUTH OF THE CENTER OF MILLER COUNTY ROAD 55, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460028A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	25	17.80	58.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    NEW BOSTON</p> <p><b>Ref Mon # 2</b>    De QUEEN CORS</p> <p><b>Ref Mon # 3</b>    AHTD HOPE, TEXARKANA</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460029	<b>Date Monumented</b> 4/8/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> R30079,030313
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	443,293.1929	
<b>Easting (M)</b>	222,992.8920	
<b>Elevation (M)*</b>	73.335	
<b>Northing (SFT)</b>	1,454,371.0837	
<b>Easting (SFT)</b>	731,602.5132	
<b>Elevation (SFT)*</b>	240.600	

  

<b>Convergence Angle</b>	-1	3	38.1210594
<b>Scale Factor</b>	1.000067143		
<b>Elevation Adjust. Factor</b>	0.9999884915		
<b>Combined Adjust. Factor</b>	1.0000556337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	44	20.00	65.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 2 31.9881192
<b>Longitude</b>	93 53 41.8413300
<b>Ellipsoid Height (M):</b>	46.915
<b>Geoid Height (M):</b>	-26.420

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 FOR 3.55 MILES TO THE STATION ON THE RIGHT, 12.0 METERS WEST OF THE CENTERLINE AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "460029 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460029A	<b>Date Monumented</b> 4/8/2003	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> R30079,030313
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	443,805.9629	
<b>Easting (M)</b>	222,932.4900	
<b>Elevation (M)*</b>	70.036	
<b>Northing (SFT)</b>	1,456,053.3966	
<b>Easting (SFT)</b>	731,404.3443	
<b>Elevation (SFT)*</b>	229.776	

  

<b>Convergence Angle</b>	-1	3	39.6284585
<b>Scale Factor</b>	1.000065766		
<b>Elevation Adjust. Factor</b>	0.9999890092		
<b>Combined Adjust. Factor</b>	1.0000547745		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 3.25 MILES TO THE STATION ON THE RIGHT, 11.4 METERS SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 4.05 FEET NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460029A 2003" ON TOP OF AN IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	268	4.00	13.1
MK # 2	TELEPHONE RISER	195	10.40	34.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    NEW BOSTON; LA GPS 8 &amp; 9</p> <p><b>Ref Mon # 2</b>    AHTD HOPE</p> <p><b>Ref Mon # 3</b>    AHTD TEXARKANA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460030	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> XA0302,030342,030463
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	484,892.4631	
<b>Easting (M)</b>	211,192.9600	
<b>Elevation (M)*</b>	92.007	
<b>Northing (SFT)</b>	1,590,851.3560	
<b>Easting (SFT)</b>	692,888.9029	
<b>Elevation (SFT)*</b>	301.860	

  

<b>Convergence Angle</b>	-1	8	10.3784817
<b>Scale Factor</b>	0.999976461		
<b>Elevation Adjust. Factor</b>	0.9999855613		
<b>Combined Adjust. Factor</b>	0.9999620226		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	169	5.60	18.4
MK # 2	NORTHWEST CORNER OF BRICK BUILDING	46	21.20	69.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: IULM, DQUA	3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.
Ref Mon # 2: AHTD HOPE	
Ref Mon # 3: AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460030A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> XA0302,030342,030463
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	484,244.4561
<b>Easting (M)</b>	211,145.5610
<b>Elevation (M)*</b>	100.142
<b>Northing (SFT)</b>	1,588,725.3531
<b>Easting (SFT)</b>	692,733.3947
<b>Elevation (SFT)*</b>	328.550

  

<b>Convergence Angle</b>	-1	8	11.1266695
<b>Scale Factor</b>	0.999977561		
<b>Elevation Adjust. Factor</b>	0.9999842847		
<b>Combined Adjust. Factor</b>	0.9999618460		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE WITH RED LIGHTS	175	11.10	36.4
MK # 2	PAY PHONE	262	22.30	73.2
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 33.5915928
<b>Longitude</b>	94 1 49.6207704
<b>Ellipsoid Height (M):</b>	73.306
<b>Geoid Height (M):</b>	-26.808

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO SOUTH ON HIGHWAY 71 0.50 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.30 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.2 METERS OF FOREST STREET AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	460030
<b>Geodetic Azimuth</b>	3 02 49
<b>Grid Azimuth</b>	4 11 01

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460030A-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
------------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,617.4062	
<b>Easting (M)</b>	203,951.8500	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,629,318.9402	
<b>Easting (SFT)</b>	669,132.0279	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	52.4448253
<b>Scale Factor</b>	0.999958575		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF PLEASANT GROVE COMMUNITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.65 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 13.0 METERS FROM THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NEW BOSTON</td> </tr> <tr> <td>Ref Mon # 2</td> <td>De QUEEN CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD HOPE, TEXARKANA</td> </tr> </table>	Ref Mon # 1	NEW BOSTON	Ref Mon # 2	De QUEEN CORS	Ref Mon # 3	AHTD HOPE, TEXARKANA	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NEW BOSTON						
Ref Mon # 2	De QUEEN CORS						
Ref Mon # 3	AHTD HOPE, TEXARKANA						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460030-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
-----------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,741.6912	
<b>Easting (M)</b>	204,524.1980	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,629,726.6985	
<b>Easting (SFT)</b>	671,009.8063	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	40.0890398
<b>Scale Factor</b>	0.999958385		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF THE PLEASANT GROVE COMMUNITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND CR 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.3 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 18 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 23.0 METERS NORTHWEST OF A POWERPOLE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    NEW BOSTON</p> <p>Ref Mon # 2    De QUEEN CORS</p> <p>Ref Mon # 3    AHTD HOPE, TEXARKANA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460031	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 237	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,745.2371	
<b>Easting (M)</b>	215,976.9550	
<b>Elevation (M)*</b>	113.228	
<b>Northing (SFT)</b>	1,587,087.4987	
<b>Easting (SFT)</b>	708,584.3932	
<b>Elevation (SFT)*</b>	371.481	

  

<b>Convergence Angle</b>	-1	6	26.2822997
<b>Scale Factor</b>	0.999978252		
<b>Elevation Adjust. Factor</b>	0.9999822312		
<b>Combined Adjust. Factor</b>	0.9999604836		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	212	2.10	6.9
<b>MK # 2</b>	NORTHEAST CORNER BAPTIST CHURCH	205	26.20	86.0
<b>MK # 3</b>	LIGHT POLE	242		

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
<b>Ref Mon # 2</b> AHTD HOPE	
<b>Ref Mon # 3</b> AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460031A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 237	<b>Job Number:</b> XA0302
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	484,111.3241				
<b>Easting (M)</b>	216,006.1540				
<b>Elevation (M)*</b>	112.823				
<b>Northing (SFT)</b>	1,588,288.5692				
<b>Easting (SFT)</b>	708,680.1902				
<b>Elevation (SFT)*</b>	370.153				

  

<b>Convergence Angle</b>	-1	6	25.8031718
<b>Scale Factor</b>	0.999977626		
<b>Elevation Adjust. Factor</b>	0.9999822947		
<b>Combined Adjust. Factor</b>	0.9999599211		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DIESEL PUMP	109	18.20	59.7
MK # 2	TELEPHONE RISER	178	24.85	81.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 32.3598780
<b>Longitude</b>	93 58 41.4391548
<b>Ellipsoid Height (M):</b>	86.032
<b>Geoid Height (M):</b>	-26.792

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO SOUTH ON HIGHWAY 237 20.2 METERS TO THE STATION MARK ON THE LEFT, EAST 9.20 METERS OF THE CENTERLINE OF HIGHWAY 237 AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460031A-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
------------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	496,722.9992	
<b>Easting (M)</b>	200,152.0600	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,629,665.3732	
<b>Easting (SFT)</b>	656,665.5502	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	14.8894725
<b>Scale Factor</b>	0.999958538		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, SOUTHEAST OF BOWIE, GO NORTH 3.8 MILES ON HWY 559 TO THE JUNCTION OF COUNTY ROAD 1397 THEN NORTH 2.6 MILES TO THE STATION ON THE LEFT. 17 METERS SOUTH OF THE C/L OF HWY 559 AND 38 METERS WEST OF A 36" PECAN TREE AND 0.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    NEW BOSTON</p> <p>Ref Mon # 2    De QUEEN CORS</p> <p>Ref Mon # 3    AHTD HOPE, TEXARKANA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460031-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
-----------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	497,186.9691	
<b>Easting (M)</b>	199,619.2370	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,631,187.5811	
<b>Easting (SFT)</b>	654,917.4467	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	26.6555350
<b>Scale Factor</b>	0.999957906		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460031A
<b>Geodetic Azimuth</b>	129 50 28
<b>Grid Azimuth</b>	131 02 55

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEW BOSTON	
<b>Ref Mon # 2</b> De QUEEN CORS	
<b>Ref Mon # 3</b> AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460032	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	482,047.0961	
<b>Easting (M)</b>	219,250.4490	
<b>Elevation (M)*</b>	111.757	
<b>Northing (SFT)</b>	1,581,516.1811	
<b>Easting (SFT)</b>	719,324.1814	
<b>Elevation (SFT)*</b>	366.655	

  

<b>Convergence Angle</b>	-1	5	14.6914430
<b>Scale Factor</b>	0.999981085		
<b>Elevation Adjust. Factor</b>	0.9999824620		
<b>Combined Adjust. Factor</b>	0.9999635474		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	271	13.00	42.7
<b>MK # 2</b>	COMBINATION POLE	257	16.50	54.1
<b>MK # 3</b>	FENCE CORNER	113	35.50	116.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> IULM, DQUA <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	<b>Comments</b>  3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
--	---

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    33    23    27.3861168

**Longitude**    93    56    34.3837464

**Ellipsoid Height (M):**    84.982

**Geoid Height (M):**    -26.772

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 2.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460032A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 481,934.4082		<b>Latitude</b> 33 23 24.0040248
<b>Easting (M)</b> 219,697.4030		<b>Longitude</b> 93 56 17.0097648
<b>Elevation (M)*</b> 101.655		<b>Ellipsoid Height (M):</b> 74.878
		<b>Geoid Height (M):</b> -26.771

  

<b>Northing (SFT)</b> 1,581,146.4709	<b>Easting (SFT)</b> 720,790.5630	<b>Location Description</b>
<b>Elevation (SFT)*</b> 333.514		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 2.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 14.5 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
<b>Convergence Angle</b> -1 5 4.9673873		
<b>Scale Factor</b> 0.999981267		
<b>Elevation Adjust. Factor</b> 0.9999840472		
<b>Combined Adjust. Factor</b> 0.9999653145		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH TELEPHONE RIS	109	9.50	31.2
<b>MK # 2</b>	19 INCH RED OAK	258	28.20	92.5
<b>MK # 3</b>	12 INCH PINE	130	30.20	99.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> IULM, DQUA <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	<b>Comments</b> 3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460032A-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
------------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	493,528.2421	
<b>Easting (M)</b>	196,053.4130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,619,183.9076	
<b>Easting (SFT)</b>	643,218.5725	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	42.2805048
<b>Scale Factor</b>	0.999963272		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460032
<b>Geodetic Azimuth</b>	10 55 40
<b>Grid Azimuth</b>	12 09 22

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> NEW BOSTON	
<b>Ref Mon # 2</b> De QUEEN CORS	
<b>Ref Mon # 3</b> AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460032-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
-----------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	494,555.7302	
<b>Easting (M)</b>	196,274.7400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,622,554.9248	
<b>Easting (SFT)</b>	643,944.7095	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	37.9599535
<b>Scale Factor</b>	0.999961755		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF FM 2253 AND FM 2148, NORTH OF LEARY, TX, GO NORTH ON FM 2253 1.0 MILE TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF C/L OF FM 2253 AND 8.4 METERS NORTHEAST CORNER OF BRIDGE AT BARKMAN CREEK AND 0.4 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    NEW BOSTON</p> <p>Ref Mon # 2    De QUEEN CORS</p> <p>Ref Mon # 3    AHTD HOPE, TEXARKANA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460033	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	481,184.7211				
<b>Easting (M)</b>	222,161.9870				
<b>Elevation (M)*</b>	111.685				
<b>Northing (SFT)</b>	1,578,686.8725				
<b>Easting (SFT)</b>	728,876.4523				
<b>Elevation (SFT)*</b>	366.421				

  

<b>Convergence Angle</b>	-1	4	11.2991493
<b>Scale Factor</b>	0.999982508		
<b>Elevation Adjust. Factor</b>	0.9999824733		
<b>Combined Adjust. Factor</b>	0.9999649816		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 4.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 9.20 METERS OF THE CENTERLINE OF THE HIGHWAY, NORTH 10.0 METERS OF THE CENTERLINE OF A RAILROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD MILE MARKER 410	206	7.00	23.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460033A-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> N/A	<b>Job Number:</b> 030295
------------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	490,702.2012	
<b>Easting (M)</b>	196,590.3310	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,609,912.1384	
<b>Easting (SFT)</b>	644,980.1110	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	29.3320283
<b>Scale Factor</b>	0.999967542		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM I-30 AND F.M. 2253 IN LEARY, TX GO EAST ALONG I-30 1609 METERS TO THE STATION ON THE LEFT, 8.8 METERS NORTH OF THE C/L OF THE EAST BOUND LANE OF I-30. THE STATION IS 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    NEW BOSTON Ref Mon # 2    De QUEEN CORS Ref Mon # 3    AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460033-TX	<b>Date Monumented</b> 5/19/2003	<b>Monumented By</b> NTB	<b>County</b> TX / BOWIE	<b>Route</b> I-30	<b>Job Number:</b> 030295
-----------------------------	-------------------------------------	-----------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	490,760.3562				
<b>Easting (M)</b>	195,739.4240				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,610,102.9353				
<b>Easting (SFT)</b>	642,188.4269				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	13	47.7986280
<b>Scale Factor</b>	0.999967481		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND F.M. 2253 GO EAST ON I-30 850 METERS TO THE STATION ON THE LEFT 8.8 METERS NORTH OF THE CENTERLINE OF THE EAST BOUND LANE OF I-30. 0.50 METERS SOUTH OF A WITNESS POST 64.9 METERS EAST OF C/L I-30 LIGHT POLE#B-1. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460033A
<b>Geodetic Azimuth</b>	92 40 48
<b>Grid Azimuth</b>	93 5 35

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> NEW BOSTON	
<b>Ref Mon # 2</b> De QUEEN CORS	
<b>Ref Mon # 3</b> AHTD HOPE, TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460034	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	479,793.5381	
<b>Easting (M)</b>	226,071.2450	
<b>Elevation (M)*</b>	108.662	
<b>Northing (SFT)</b>	1,574,122.6329	
<b>Easting (SFT)</b>	741,702.0763	
<b>Elevation (SFT)*</b>	356.500	

  

<b>Convergence Angle</b>	-1	2	46.1083952
<b>Scale Factor</b>	0.999984866		
<b>Elevation Adjust. Factor</b>	0.9999829478		
<b>Combined Adjust. Factor</b>	0.9999678140		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SERVICE POLE WITH GUY	278	25.60	84.0
<b>MK # 2</b>	TELEPHONE RISER	282	25.30	83.0
<b>MK # 3</b>	COMBINATION POLE	293	26.90	88.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
<b>Ref Mon # 2</b> AHTD HOPE	
<b>Ref Mon # 3</b> AHTD TEXARKANA	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 22 18.3725832
<b>Longitude</b>	93 52 8.9102424
<b>Ellipsoid Height (M):</b>	81.946
<b>Geoid Height (M):</b>	-26.747

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 7.4 MILES TO THE STATION MARK ON THE RIGHT, EAST 15.30 METERS OF A DRIVE, SOUTH 10.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.0 METER OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460034 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460034A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	480,049.6351		
<b>Easting (M)</b>	225,616.5270		
<b>Elevation (M)*</b>	111.586		
<b>Northing (SFT)</b>	1,574,962.8445		
<b>Easting (SFT)</b>	740,210.2223		
<b>Elevation (SFT)*</b>	366.096		

  

<b>Convergence Angle</b>	-1	2	56.0537902
<b>Scale Factor</b>	0.999984420		
<b>Elevation Adjust. Factor</b>	0.9999824888		
<b>Combined Adjust. Factor</b>	0.9999669091		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 7.1 MILES TO THE STATION MARK ON THE LEFT, NORTH ACROSS THE ROAD FROM GENOA CENTRAL HIGH SCHOOL AND EAST OF A GRAVEL DRIVE 34.10 METERS. NORTH 9.00 METERS OF THE THE CENTERLINE OF THE HIGHWAY AND EAST 41.2 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460034A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN 0.10 METERS BELOW GROUND LEVEL. NOTE: ***** STATION MARK IS 41.2 METERS EAST OF THE WITNESS POST***** SUBSURFACE 0.10 METERS</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY	294	41.20	135.2
<b>MK # 2</b>	FLAG POLE	201	31.00	101.7
<b>MK # 3</b>	LIGHT POLE WITH TELEPHONE RISER	234	43.80	143.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> IULM, DQUA <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	<b>Comments</b>  3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460035	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,445.5511	
<b>Easting (M)</b>	229,953.2320	
<b>Elevation (M)*</b>	107.611	
<b>Northing (SFT)</b>	1,566,419.2789	
<b>Easting (SFT)</b>	754,438.2287	
<b>Elevation (SFT)*</b>	353.055	

  

<b>Convergence Angle</b>	-1	1	21.1618796
<b>Scale Factor</b>	0.999989040		
<b>Elevation Adjust. Factor</b>	0.9999831125		
<b>Combined Adjust. Factor</b>	0.9999721527		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	265	19.20	63.0
MK # 2	TELEPHONE RISER	325	28.20	92.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460035A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,382.9851	
<b>Easting (M)</b>	230,692.2990	
<b>Elevation (M)*</b>	109.985	
<b>Northing (SFT)</b>	1,566,214.0103	
<b>Easting (SFT)</b>	756,862.9843	
<b>Elevation (SFT)*</b>	360.841	

  

<b>Convergence Angle</b>	-1	1	5.1419142
<b>Scale Factor</b>	0.999989131		
<b>Elevation Adjust. Factor</b>	0.9999827401		
<b>Combined Adjust. Factor</b>	0.9999718713		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	230	2.85	9.4
<b>MK # 2</b>	TELEPHONE RISER	265	20.30	66.6
<b>MK # 3</b>	COMBINATION POLE WITH GUY	256	28.70	94.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
<b>Ref Mon # 2</b> AHTD HOPE	
<b>Ref Mon # 3</b> AHTD TEXARKANA	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 2.8431864
<b>Longitude</b>	93 49 8.5133136
<b>Ellipsoid Height (M):</b>	83.340
<b>Geoid Height (M):</b>	-26.719

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 10.85 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 11.25 METERS OF THE CENTERLINE OF THE HIGHWAY AND 8.6 METERS OF A DRIVE WITH THE ADDRESS 16212. NORTH 1.55 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460035A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460036	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	477,631.4591	
<b>Easting (M)</b>	234,529.1350	
<b>Elevation (M)*</b>	69.231	
<b>Northing (SFT)</b>	1,567,029.2121	
<b>Easting (SFT)</b>	769,451.0037	
<b>Elevation (SFT)*</b>	227.134	

  

<b>Convergence Angle</b>	0	59	42.1930941
<b>Scale Factor</b>	0.999988545		
<b>Elevation Adjust. Factor</b>	0.9999891356		
<b>Combined Adjust. Factor</b>	0.9999776807		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY	145	6.20	20.3
<b>MK # 2</b>	WESTERN MOST GATE POST	211	9.85	32.3
<b>MK # 3</b>	NORTHERN MOST GUY	38	4.00	13.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> IULM, DQUA <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 33 21 13.0949352

**Longitude** 93 46 40.3085604

**Ellipsoid Height (M):** 42.617

**Geoid Height (M):** -26.717

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 237 16.51 MILES TO THE STATION MARK ON THE LEFT, NORTH 25.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 5.60 METERS OF A DRIVE AND NORTH 1.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460036 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460036A	<b>Date Monumented</b> 7/28/2004	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	477,622.6451		
<b>Easting (M)</b>	235,085.1830		
<b>Elevation (M)*</b>	67.964		
<b>Northing (SFT)</b>	1,567,000.2948		
<b>Easting (SFT)</b>	771,275.3046		
<b>Elevation (SFT)*</b>	222.978		

  

<b>Convergence Angle</b>	0	59	30.1546048
<b>Scale Factor</b>	0.999988543		
<b>Elevation Adjust. Factor</b>	0.9999893344		
<b>Combined Adjust. Factor</b>	0.9999778775		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWESTERN END OF BRIDGE	145	21.30	69.9
MK # 2	POWER POLE WITH GUY	5	5.25	17.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> IULM, DQUA <b>Ref Mon # 2</b> AHTD HOPE <b>Ref Mon # 3</b> AHTD TEXARKANA	<b>Comments</b>  3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
---	---

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 21 13.1217948
<b>Longitude</b>	93 46 18.7993776
<b>Ellipsoid Height (M):</b>	41.343
<b>Geoid Height (M):</b>	-26.715

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 196 16.84 MILES TO THE STATION MARK ON THE LEFT, NORTH 22.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 6.0 METERS OF A GRAVEL GATED ROAD, AND SOUTH 4.05 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460036A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	460036
<b>Geodetic Azimuth</b>	269 54 59
<b>Grid Azimuth</b>	270 54 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460037	<b>Date Monumented</b> 9/24/2007	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> NA	<b>Job Number:</b> R30079,030313
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	440,825.8429	
<b>Easting (M)</b>	220,096.4270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,446,276.1196	
<b>Easting (SFT)</b>	722,099.6942	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	4	39.5835453
<b>Scale Factor</b>	1.000074019		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, NORTH 24.0 FEET OF THE CENTERLINE AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	158	13.93	45.7
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    460022, 460022A</p> <p>Ref Mon # 2    460029, 460029A</p> <p>Ref Mon # 3    LA GPS 8, LA GPS 9</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460037A	<b>Date Monumented</b> 9/24/2007	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> NA	<b>Job Number:</b> R30079,030313
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	440,819.3099	
<b>Easting (M)</b>	220,524.5790	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,446,254.6859	
<b>Easting (SFT)</b>	723,504.3896	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	4	30.3500621
<b>Scale Factor</b>	1.000074015		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.0 FEET OF THE CENTERLINE AND SOUTH 10.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	74	3.38	11.1
MK # 2	IRON GATE POST	172	31.03	101.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    460022, 460022A</p> <p><b>Ref Mon # 2</b>    460029, 460029A</p> <p><b>Ref Mon # 3</b>    LA GPS 8, LA GPS 9</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460038	<b>Date Monumented</b> 9/24/2007	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 549	<b>Job Number:</b> R30079,030313
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 448,204.2939		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 223,057.0850		<b>Latitude</b> 33 5 11.4042336
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 53 42.8716320
<b>Northing (SFT)</b> 1,470,483.5876		<b>Ellipsoid Height (M):</b> 48.068
<b>Easting (SFT)</b> 731,813.1197		<b>Geoid Height (M):</b> -26.465
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 3 38.6977099	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 11.7 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHEAST 17.5 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, NORTHWEST 53.5 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND SOUTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 1.000054191	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 460022, 460022A	
<b>Ref Mon # 2</b> 460029, 460029A	
<b>Ref Mon # 3</b> LA GPS 8, LA GPS 9	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460038A	<b>Date Monumented</b> 9/24/2007	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 549	<b>Job Number:</b> R30079,030313
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 447,745.6499		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 222,780.8830		<b>Latitude</b> 33 4 56.3539620
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 53 53.1915936
<b>Northing (SFT)</b> 1,468,978.8530		<b>Ellipsoid Height (M):</b> 47.071
<b>Easting (SFT)</b> 730,906.9470		<b>Geoid Height (M):</b> -26.462
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 3 44.4736963	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 12.0 MILES TO THE STATION MARK IN THE MEDIAN, EAST 24.0 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, WEST 47.0 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038A 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 1.000055388	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						460038
MK # 2						29 59 40
MK # 3						31 03 25

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 460022, 460022A	
Ref Mon # 2 460029, 460029A	
Ref Mon # 3 LA GPS 8, LA GPS 9	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460040	<b>Date Monumented</b> 10/2/2007	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> 82	<b>Job Number:</b> 030349
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	486,352.4192	
<b>Easting (M)</b>	217,531.1160	
<b>Elevation (M)*</b>	107.414	
<b>Northing (SFT)</b>	1,595,641.2287	
<b>Easting (SFT)</b>	713,683.3364	
<b>Elevation (SFT)*</b>	352.409	

  

<b>Convergence Angle</b>	-1	5	53.7069672
<b>Scale Factor</b>	0.999973821		
<b>Elevation Adjust. Factor</b>	0.9999831435		
<b>Combined Adjust. Factor</b>	0.9999569649		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gas meter	94	18.29	60.0
<b>MK # 2</b>	Pipe line mileage post #516	252	16.15	53.0
<b>MK # 3</b>	Gas line vent pipe	269	9.75	32.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 460026,460026A	3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307.
<b>Ref Mon # 2</b> ARHP, B 307	
<b>Ref Mon # 3</b> TXMA, 460001	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 25 46.0426332
<b>Longitude</b>	93 57 44.0928288
<b>Ellipsoid Height (M):</b>	80.566
<b>Geoid Height (M):</b>	-26.810

Location Description
<p>To reach the station from the junction of highways 82 and 245 on the southeast side of Texarkana go east on hwy-82 for 2.30 mi. to the station on the right near the center of a gas line right of way. 69.9 feet south of the center of hwy-82, 100.8 feet east of a paved drive and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "460040 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.40 feet below the surface.</p>

<b>AZ Mark Station</b>	460001
<b>Geodetic Azimuth</b>	274 36 44
<b>Grid Azimuth</b>	275 42 38

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460041	<b>Date Monumented</b> 8/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> NA	<b>Job Number:</b> 030388,030463
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	486,065.6132	
<b>Easting (M)</b>	210,913.2280	
<b>Elevation (M)*</b>	92.031	
<b>Northing (SFT)</b>	1,594,700.2660	
<b>Easting (SFT)</b>	691,971.1489	
<b>Elevation (SFT)*</b>	301.938	

  

<b>Convergence Angle</b>	-1	8	16.9418474
<b>Scale Factor</b>	0.999974509		
<b>Elevation Adjust. Factor</b>	0.9999855576		
<b>Combined Adjust. Factor</b>	0.9999600669		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Guy pole	37	24.69	81.0
<b>MK # 2</b>	Sewer manhole	344	12.50	41.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388. *****S5112 COULD NOT FIND MARK IN AUG. 2020 & REPORTED DESTROYED
<b>Ref Mon # 2</b> TXMA	
<b>Ref Mon # 3</b> TXCR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460041A	<b>Date Monumented</b> 8/3/2010	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> NA	<b>Job Number:</b> 030388,030463,030477
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	486,492.3218	0.0030	
<b>Easting (M)</b>	211,311.1858	0.0030	
<b>Elevation (M)*</b>	89.450		
<b>Northing (SFT)</b>	1,596,100.2258		
<b>Easting (SFT)</b>	693,276.7821		
<b>Elevation (SFT)*</b>	293.470		

  

<b>Convergence Angle</b>	-1	8	8.5047944
<b>Scale Factor</b>	0.999973791		
<b>Elevation Adjust. Factor</b>	0.9999859626		
<b>Combined Adjust. Factor</b>	0.9999597540		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	25	46.6472856
<b>Longitude</b>	94	1	44.9366052
<b>Ellipsoid Height:</b>	62.626		
<b>Grid Northing (Meters)</b>	486,492.3232		
<b>Grid Easting (Meters)</b>	211,311.1770		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a guardrail	60	4.97	16.3
MK # 2	Sewer manhole	312	10.15	33.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARHP (ARHP)	Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388. *****RESTATI C BY S5112 FOR JOB #030477 IN AUG./SEPT. 2020, SS GEOID HT. WAS - 26.824m *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.
Ref Mon # 2    ARDQ (TXMA)	
Ref Mon # 3    SHRV (TXCR)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460042	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> Hwy.67	<b>Job Number:</b> 030417
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>			
<b>Horizontal Datum</b>					
<b>Northing (M)</b>	#Error				
<b>Easting (M)</b>	#Error				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td style="padding: 5px;">                     To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.12 miles to the station on the left, 63 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460042 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.                 </td> </tr> </table>		Location Description	To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.12 miles to the station on the left, 63 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460042 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.
Location Description					
To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.12 miles to the station on the left, 63 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460042 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.					
<b>Easting (SFT)</b>	#Type!				
<b>Elevation (SFT)*</b>					
<b>Convergence Angle</b>	###/### #Error				
<b>Scale Factor</b>	#Error				
<b>Elevation Adjust. Factor</b>					
<b>Combined Adjust. Factor</b>	#Type!				

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	East of cl hwy.67	325	19.20	63.0	
<b>MK # 2</b>	North of double box culvert	239	4.57	15.0	
<b>MK # 3</b>	Nw of center of double box culvert	165	10.97	36.0	

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460042A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> Hwy.67	<b>Job Number:</b> 030417
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>					
<b>Horizontal Datum</b>							
<b>Northing (M)</b>	#Error						
<b>Easting (M)</b>	#Error						
<b>Elevation (M)*</b>							
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;">                     To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.6 miles to the station on the left, 65 feet east of the center of Hwy-67 and 2 feet NW of a witness post. The station mark is a 2 1/2in cap stamped "460042A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.                 </td> </tr> </table>		Location Description		To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.6 miles to the station on the left, 65 feet east of the center of Hwy-67 and 2 feet NW of a witness post. The station mark is a 2 1/2in cap stamped "460042A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.	
Location Description							
To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.6 miles to the station on the left, 65 feet east of the center of Hwy-67 and 2 feet NW of a witness post. The station mark is a 2 1/2in cap stamped "460042A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.							
<b>Easting (SFT)</b>	#Type!						
<b>Elevation (SFT)*</b>							
<b>Convergence Angle</b>	###/### #Error						
<b>Scale Factor</b>	#Error						
<b>Elevation Adjust. Factor</b>							
<b>Combined Adjust. Factor</b>	#Type!						

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	East of cl hwy.67	325	19.80	65.0	
MK # 2	NE of 18" CCP	270	14.93	49.0	Geodetic Azimuth
MK # 3	West of nearest rail	150	24.38	80.0	Grid Azimuth

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460043	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> Hwy.67	<b>Job Number:</b> 030417
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	### ###	#Error
<b>Scale Factor</b>		#Error
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		#Type!

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	East of cl hwy.67	295	19.50	64.0
<b>MK # 2</b>	SE from center of conc.HW	346	16.46	54.0
<b>MK # 3</b>	West of nearest rail	105	25.60	84.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460043A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Miller	<b>Route</b> Hwy.67	<b>Job Number:</b> 030417
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>					
<b>Horizontal Datum</b>							
<b>Northing (M)</b>	#Error						
<b>Easting (M)</b>	#Error						
<b>Elevation (M)*</b>							
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;">                     To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.0 miles to the station on the left, 43 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.                 </td> </tr> </table>		Location Description		To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.0 miles to the station on the left, 43 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.	
Location Description							
To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.0 miles to the station on the left, 43 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.							
<b>Easting (SFT)</b>	#Type!						
<b>Elevation (SFT)*</b>							
<b>Convergence Angle</b>	###/### #Error						
<b>Scale Factor</b>	#Error						
<b>Elevation Adjust. Factor</b>							
<b>Combined Adjust. Factor</b>	#Type!						

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SE of hwy.67	300	13.10	43.0	
MK # 2	SW of entrance of RR crossing	30	12.50	41.0	
MK # 3	NW of cl of old hwy.67	120	11.28	37.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460044	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71/59	<b>Job Number:</b> 030449
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	499,896.3886	0.0060
<b>Easting (M)</b>	210,429.8925	0.0050
<b>Elevation (M)*</b>	87.301	

  

<b>Northing (SFT)</b>	1,640,076.7349	
<b>Easting (SFT)</b>	690,385.4056	
<b>Elevation (SFT)*</b>	286.419	

  

<b>Convergence Angle</b>	-1	8	33.3868390
<b>Scale Factor</b>	0.999953933		
<b>Elevation Adjust. Factor</b>	0.9999862999		
<b>Combined Adjust. Factor</b>	0.9999402335		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST BRIDGE CORNER		13.70	44.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    SHRV	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.
Ref Mon # 2    ARHP	
Ref Mon # 3    ARCM	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	33    33    1.0751112
<b>Longitude</b>	94    2    29.3930412
<b>Ellipsoid Height (M):</b>	60.280    0.0070
<b>Geoid Height (M):</b>	-27.012    0.0070

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSTATE 30 FOR 6.6 MILES TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED "2015 460044" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 11.8 FOOT SOUTH OF A WITNESS POST, 27 FOOT WEST OF THE CENTERLINE OF HIGHWAY 71/59, 13.7 FOOT SOUTH OF THE SOUTHWEST BRIDGE CORNER.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460044A	<b>Date Monumented</b> 2/11/2015	<b>Monumented By</b> AHTD	<b>County</b> MILLER	<b>Route</b> 71/59	<b>Job Number:</b> 030449
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	499,275.7159    0.0060
<b>Easting (M)</b>	210,290.5896    0.0050
<b>Elevation (M)*</b>	83.988

  

<b>Northing (SFT)</b>	1,638,040.4112	
<b>Easting (SFT)</b>	689,928.3760	
<b>Elevation (SFT)*</b>	275.550	

  

<b>Convergence Angle</b>	-1    8	36.1399799
<b>Scale Factor</b>	0.999954761	
<b>Elevation Adjust. Factor</b>	0.9999868198	
<b>Combined Adjust. Factor</b>	0.9999415814	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSTATE 30 FOR 6.5 MILES THEN TURN LEFT WEST ONTO THE CROSSROAD LINKING THE SOUTH BOUND SIDE AND THE NORTH BOUND SIDE, TURN LEFT SOUTH ON THE ACCESS ROAD TO THE REST AREA .1 OF A MILE TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED :2015 460044A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 51.8 FOOT NORTHWEST OF THE SOUTH END OF A CULVERT, 96.1 FOOT SOUTHEAST OF A LIGHT POLE, 23.2 FOOT NORTH OF THE EDGE OF THE PAVEMENT.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CULVERT		51.80	169.9
MK # 2	LIGHT POLE		96.10	315.3
MK # 3	EDGE OF PAVEMENT		23.20	76.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SHRV <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460045	<b>Date Monumented</b> 8/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> MILLER	<b>Route</b> BROAD ST	<b>Job Number:</b> 030477
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	486,058.5763	0.0030	
<b>Easting (M)</b>	210,909.4468	0.0030	
<b>Elevation (M)*</b>	92.102		
<b>Northing (SFT)</b>	1,594,677.1791		
<b>Easting (SFT)</b>	691,958.7434		
<b>Elevation (SFT)*</b>	302.171		

  

<b>Convergence Angle</b>	-1	8	17.0207242
<b>Scale Factor</b>	0.999974521		
<b>Elevation Adjust. Factor</b>	0.9999855464		
<b>Combined Adjust. Factor</b>	0.9999600678		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	17	16.40	53.8
<b>MK # 2</b>	LIGHT POLE	270	28.16	92.4
<b>MK # 3</b>	SW CORNER BRIDGE PIER	45	23.99	78.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.
<b>Ref Mon # 2</b> ARDQ	
<b>Ref Mon # 3</b> SHRV	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 25 32.3123556
<b>Longitude</b>	94 2 0.1516848
<b>Ellipsoid Height (M):</b>	65.192
<b>Geoid Height (M):</b>	-26.910

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 82, IN TEXARKANA, GO WEST ON BROAD STREET FOR 0.45 MILES TO THE MARK ON THE LEFT, SOUTH 79.7' OF THE STREET AND 10.6' NORTH OF THE NEAREST RAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460045" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460046	<b>Date Monumented</b> 8/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> 030477, 030575
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	490,975.3858	0.0010	
<b>Easting (M)</b>	210,128.4831	0.0010	
<b>Elevation (M)*</b>	120.207		
<b>Northing (SFT)</b>	1,610,808.4116		
<b>Easting (SFT)</b>	689,396.5316		
<b>Elevation (SFT)*</b>	394.379		

  

<b>Convergence Angle</b>	-1	8	36.0629649
<b>Scale Factor</b>	0.999966688		
<b>Elevation Adjust. Factor</b>	0.9999811360		
<b>Combined Adjust. Factor</b>	0.9999478246		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	33	28	11.3710944
<b>Longitude</b>	94	2	34.1749680
<b>Ellipsoid Height:</b>	93.261		
<b>Grid Northing (Meters)</b>	490,975.3968		
<b>Grid Easting (Meters)</b>	210,128.4706		

  

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND I 30, NORTH OF TEXARKANA, THE MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE HIGHWAY 71 OVERPASS OVER I 30. MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE		0	7.44	24.4
MK # 2	LIGHT POLE		160	9.20	30.2
MK # 3	SIGNAL POLE		202	24.14	79.2

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARHP	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ. *****UPDATE D STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ & SHRV &
Ref Mon # 2	ARDQ	
Ref Mon # 3	SHRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460046A	<b>Date Monumented</b> 8/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> 030477, 030575
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	490,981.8190	0.0010	
<b>Easting (M)</b>	210,617.8777	0.0010	
<b>Elevation (M)*</b>	107.834		
<b>Northing (SFT)</b>	1,610,829.5178		
<b>Easting (SFT)</b>	691,002.1538		
<b>Elevation (SFT)*</b>	353.787		

  

<b>Convergence Angle</b>	-1	8	25.4593750
<b>Scale Factor</b>	0.999966663		
<b>Elevation Adjust. Factor</b>	0.9999830775		
<b>Combined Adjust. Factor</b>	0.9999497411		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	33	28	11.8964604
<b>Longitude</b>	94	2	15.2291976
<b>Ellipsoid Height:</b>	80.888		
<b>Grid Northing (Meters)</b>	490,981.8307		
<b>Grid Easting (Meters)</b>	210,617.8737		

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND REALTOR AVE, NORTH OF TEXARKANA, GO EAST ON REALTOR AVE 0.30 MILES TO THE MARK ON THE LEFT, SOUTH 34.6' OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE OF I 30 AND NORTH OF THE EDGE OF PAVEMENT OF REALTOR AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ELECTRIC BOX	78	14.60	47.9
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARHP</p> <p>Ref Mon # 2    ARDQ</p> <p>Ref Mon # 3    SHRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 &amp; B 1497  *****LEVELED  ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.  *****UPDATE  D STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ &amp; SHRV.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470001-96	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
-----------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,427.1009	
<b>Easting (M)</b>	580,782.2030	
<b>Elevation (M)*</b>	73.199	
<b>Northing (SFT)</b>	568,985.4135	
<b>Easting (SFT)</b>	1,905,449.6110	
<b>Elevation (SFT)*</b>	240.154	

  

<b>Convergence Angle</b>	1	9	54.3975602
<b>Scale Factor</b>	0.999949215		
<b>Elevation Adjust. Factor</b>	0.9999885128		
<b>Combined Adjust. Factor</b>	0.9999377284		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	324	1.41	4.6
<b>MK # 2</b>	USC&GS BM=L 185 1956	178	28.45	93.3
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	94	74.97	246.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "L 185" ELEVATION = 73.780 METERS NAVD88 DATUM.
<b>Ref Mon # 2</b> MANIPOR	
<b>Ref Mon # 3</b> VILLPOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470001A-96	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
------------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,785.8939	
<b>Easting (M)</b>	581,256.1460	
<b>Elevation (M)*</b>	73.271	
<b>Northing (SFT)</b>	570,162.5536	
<b>Easting (SFT)</b>	1,907,004.5390	
<b>Elevation (SFT)*</b>	240.390	

  

<b>Convergence Angle</b>	1	10	5.5603571
<b>Scale Factor</b>	0.999949500		
<b>Elevation Adjust. Factor</b>	0.9999885015		
<b>Combined Adjust. Factor</b>	0.9999380021		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	322	1.49	4.9
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	118	53.62	175.9
<b>MK # 3</b>	WOODEN CORNER FENCE POST	162	51.35	168.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "M 185" ELEVATION = 73.901 METERS NAVD88 DATUM.
<b>Ref Mon # 2</b> MANIPOR	
<b>Ref Mon # 3</b> VILLPOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470002-96	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
-----------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	176,209.7069	
<b>Easting (M)</b>	584,135.8040	
<b>Elevation (M)*</b>	75.172	
<b>Northing (SFT)</b>	578,114.6801	
<b>Easting (SFT)</b>	1,916,452.2170	
<b>Elevation (SFT)*</b>	246.627	

  

<b>Convergence Angle</b>	1	11	13.5211049
<b>Scale Factor</b>	0.999951504		
<b>Elevation Adjust. Factor</b>	0.9999882032		
<b>Combined Adjust. Factor</b>	0.9999397078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	214	33.21	108.9
<b>MK # 2</b>	REINFORCED CONCRETE PIPE 0.70 METER	222	36.73	120.5
<b>MK # 3</b>	COMBINATION POLE	42	56.53	185.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.
<b>Ref Mon # 2</b> MANIPOR	
<b>Ref Mon # 3</b> VILLPOR	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 54 15.9590952
<b>Longitude</b>	89 57 35.9073576
<b>Ellipsoid Height (M):</b>	46.515
<b>Geoid Height (M):</b>	-28.657

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 41.027 METERS NORTHEAST OF A GRAVEL DRIVE, 12.507 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470002A-96	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
------------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	176,573.7219	
<b>Easting (M)</b>	584,410.9010	
<b>Elevation (M)*</b>	75.603	
<b>Northing (SFT)</b>	579,308.9526	
<b>Easting (SFT)</b>	1,917,354.7644	
<b>Elevation (SFT)*</b>	248.041	

  

<b>Convergence Angle</b>	1	11	20.0791488
<b>Scale Factor</b>	0.999951820		
<b>Elevation Adjust. Factor</b>	0.9999881356		
<b>Combined Adjust. Factor</b>	0.9999399561		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 5.15 KM (3.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 118.255 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.767 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	42	47.15	154.7
MK # 2	COMBINATION POLE	206	42.41	139.1
MK # 3	SOUTHWEST CORNER OF A BRICK FENCE	64	85.02	278.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    KENNPOR</p> <p><b>Ref Mon # 2</b>    MANIPOR</p> <p><b>Ref Mon # 3</b>    VILLPOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470003	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302,100663
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,364.1849	
<b>Easting (M)</b>	586,147.3310	
<b>Elevation (M)*</b>	76.190	
<b>Northing (SFT)</b>	585,183.1633	
<b>Easting (SFT)</b>	1,923,051.7018	
<b>Elevation (SFT)*</b>	249.968	

  

<b>Convergence Angle</b>	1	12	1.2394964
<b>Scale Factor</b>	0.999953412		
<b>Elevation Adjust. Factor</b>	0.9999880434		
<b>Combined Adjust. Factor</b>	0.9999414560		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	REINFORCED CONCRETE PIPE 0.50 METERS	357	5.18	17.0
<b>MK # 2</b>	CONCRETE R/W MARKER	132	0.55	1.8
<b>MK # 3</b>	NE CORNER OF ALLEN AC/SHEET METAL B	194	19.77	64.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. 3-Wire Levels ran to mark from 1st Order NGS marks B189 & E189 by crew S5102 & S5110.
<b>Ref Mon # 2</b> MANIPOR	
<b>Ref Mon # 3</b> VILLPOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470003A	<b>Date Monumented</b> 11/3/1997	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,771.9479	
<b>Easting (M)</b>	586,641.4060	
<b>Elevation (M)*</b>	75.973	
<b>Northing (SFT)</b>	586,520.9657	
<b>Easting (SFT)</b>	1,924,672.6795	
<b>Elevation (SFT)*</b>	249.255	

  

<b>Convergence Angle</b>	1	12	12.9044404
<b>Scale Factor</b>	0.999953783		
<b>Elevation Adjust. Factor</b>	0.9999880775		
<b>Combined Adjust. Factor</b>	0.9999418611		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	240	32.05	105.1
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	182	41.67	136.7
<b>MK # 3</b>	SOUTHWEST END OF LINE BRACE WOODE W. POST	137	32.56	106.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES.
<b>Ref Mon # 2</b> MANIPOR	
<b>Ref Mon # 3</b> VILLPOR	

  

<b>AZ Mark Station</b>	470003
<b>Geodetic Azimuth</b>	231 40 13.99463
<b>Grid Azimuth</b>	230 28 01.04169

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470004	<b>Date Monumented</b> 10/18/2000	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100491,100663
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,309.2245	
<b>Easting (M)</b>	596,069.5888	
<b>Elevation (M)*</b>	78.135	
<b>Northing (SFT)</b>	585,002.8474	
<b>Easting (SFT)</b>	1,955,604.9759	
<b>Elevation (SFT)*</b>	256.348	

  

<b>Convergence Angle</b>	1	15	51.4745876
<b>Scale Factor</b>	0.999953163		
<b>Elevation Adjust. Factor</b>	0.9999877382		
<b>Combined Adjust. Factor</b>	0.9999409018		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 1.61 KM (1.00 MI) WEST OF ARMOREL, GO WEST ON STATE HIGHWAY 18 FOR 1.44KM (0.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 18, 5.55 METERS NORTH OF THE NORTH RAIL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 517.224 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	80	14.95	49.0
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MANIPORT</p> <p><b>Ref Mon # 2</b>    KENNPORT</p> <p><b>Ref Mon # 3</b>    COTTON 2 RM5</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on 3-wire from NGS point V 185</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470004A	<b>Date Monumented</b> 10/18/2000	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100491
---------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	178,339.9178		
<b>Easting (M)</b>	596,585.8682		
<b>Elevation (M)*</b>	77.007		
<b>Northing (SFT)</b>	585,103.5470		
<b>Easting (SFT)</b>	1,957,298.8026		
<b>Elevation (SFT)*</b>	252.647		

  

<b>Convergence Angle</b>	1	16	3.4711303
<b>Scale Factor</b>	0.999953181		
<b>Elevation Adjust. Factor</b>	0.9999879152		
<b>Combined Adjust. Factor</b>	0.9999410968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 1.61 KM (1.00 MI) WEST OF ARMOREL, GO WEST ON STATE HIGHWAY 18 FOR 0.94 KM (0.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.54 METERS NORTH OF THE CENTER OF STATE HIGHWAY 18, 14.00 METERS WEST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE SHOT DISTANCE IS 517.224 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF CMP	98	9.22	30.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    MANIPORT</p> <p><b>Ref Mon # 2</b>    KENNPOR</p> <p><b>Ref Mon # 3</b>    COTTON 2 RM5</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on 3-wire from NGS point V 185</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470005	<b>Date Monumented</b> 8/2/2001	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 137	<b>Job Number:</b> 100538
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	180,938.9759	
<b>Easting (M)</b>	599,694.9820	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	593,630.6234	
<b>Easting (SFT)</b>	1,967,499.2868	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	17	16.9769342
<b>Scale Factor</b>	0.999955595		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO WEST ON STATE HIGHWAY 137 FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF MISSISSIPPI COUNTY ROAD N917, 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 137, AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470005 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 721.372 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: COTTON 2 RM 5</p> <p>Ref Mon # 2: MANIPORT</p> <p>Ref Mon # 3: KENNPOR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470005A	<b>Date Monumented</b> 8/2/2001	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 137	<b>Job Number:</b> 100538
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	180,917.4749	
<b>Easting (M)</b>	598,973.9680	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	593,560.0822	
<b>Easting (SFT)</b>	1,965,133.7600	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	17	0.2292016
<b>Scale Factor</b>	0.999955589		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO WEST ON STATE HIGHWAY 137 FOR 0.853 KM (0.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 137 AND 0.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 721.372 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: COTTON 2 RM 5</p> <p>Ref Mon # 2: MANIPORT</p> <p>Ref Mon # 3: KENNPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470006	<b>Date Monumented</b> 8/2/2001	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> N/A	<b>Job Number:</b> 100538
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,069.8549	
<b>Easting (M)</b>	604,610.1560	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	594,060.0156	
<b>Easting (SFT)</b>	1,983,625.1535	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	19	11.1388459
<b>Scale Factor</b>	0.999955613		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.30 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142 AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: COTTON 2 RM 5</p> <p>Ref Mon # 2: MANIPORT</p> <p>Ref Mon # 3: KENNPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470006A	<b>Date Monumented</b> 8/2/2001	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> N/A	<b>Job Number:</b> 100538
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,097.1649	
<b>Easting (M)</b>	605,245.0880	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	594,149.6152	
<b>Easting (SFT)</b>	1,985,708.2595	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	19	25.8916612
<b>Scale Factor</b>	0.999955626		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828 KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 40 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 7.80 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: COTTON 2 RM 5</p> <p>Ref Mon # 2: MANIPORT</p> <p>Ref Mon # 3: KENNPOR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470007	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100308
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	173,931.2199				
<b>Easting (M)</b>	557,263.6170				
<b>Elevation (M)*</b>	70.084				
<b>Northing (SFT)</b>	570,639.3440				
<b>Easting (SFT)</b>	1,828,289.0501				
<b>Elevation (SFT)*</b>	229.934				

  

<b>Convergence Angle</b>	1	0	49.0630319
<b>Scale Factor</b>	0.999949997		
<b>Elevation Adjust. Factor</b>	0.9999890017		
<b>Combined Adjust. Factor</b>	0.9999389992		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	POWER POLE	284	9.10	29.9		
MK # 2	SOUTHWEST CORNER BRICK SIGN	53	21.50	70.5		
MK # 3	SOUTH END CONCRETE HEADWALL	92	23.40	76.8		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> VILLPORT <b>Ref Mon # 3</b> MANIPORT	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 231.5042 FEET

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    53    18.7874736
<b>Longitude</b>	90    15    29.0453688
<b>Ellipsoid Height (M):</b>	42.039
<b>Geoid Height (M):</b>	-28.004

  

Location Description
TO REACH THE STATION FROM THE CRAIGHEAD - MISSISSIPPI COUNTY LINE, GO EAST 1.62 MILES TO THE STATION ON THE LEFT AT THE NORTHWEST CORNER OF THE JUNCTION OF HWY. 18 AND HWY. 119. THE STATION IS 16.50 METERS FROM THE CENTERLINE OF HWY 18, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "47007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470007A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 119	<b>Job Number:</b> 100308, 100653
---------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	174,478.3769	
<b>Easting (M)</b>	557,296.1680	
<b>Elevation (M)*</b>	70.563	
<b>Northing (SFT)</b>	572,434.4749	
<b>Easting (SFT)</b>	1,828,395.8445	
<b>Elevation (SFT)*</b>	231.505	

  

<b>Convergence Angle</b>	1	0	50.0428122
<b>Scale Factor</b>	0.999950456		
<b>Elevation Adjust. Factor</b>	0.9999889265		
<b>Combined Adjust. Factor</b>	0.9999393830		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	281	21.25	69.7
<b>MK # 2</b>	GAS METER	260	21.00	68.9
<b>MK # 3</b>	UNDERGROUND CABLE MARKER	155	8.65	28.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AHTD PAR 1 <b>Ref Mon # 2</b> VILLPORT <b>Ref Mon # 3</b> MANIPORT	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 229.9326 FEET

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 119 ABOUT 1.62 MILES EAST OF THE CRAIGHEAD - MISSISSIPPI COUNTY LINE, GO NORTH ON HIGHWAY 119 0.32 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.40 METERS FROM THE CENTERLINE OF HIGHWAY 119, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 470007A 2002" SET ON TOP OF A 1.22M IRON ROD DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	470007
<b>Geodetic Azimuth</b>	184 25 06
<b>Grid Azimuth</b>	183 24 16

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470008A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100308,100654, 100653
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 173,931.1159		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 563,684.4310		<b>Latitude</b> 35 53 15.0234144
<b>Elevation (M)*</b> 71.861		<b>Longitude</b> 90 11 13.0694496
<b>Northing (SFT)</b> 570,639.0027		<b>Ellipsoid Height (M):</b> 43.881
<b>Easting (SFT)</b> 1,849,354.6707		<b>Geoid Height (M):</b> -27.980
<b>Elevation (SFT)*</b> 235.764		

  

<b>Convergence Angle</b> 1 3 18.0151961	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO WEST ON HIGHWAY 18 0.61 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS FROM THE CENTERLINE OF HIGHWAY 18, 24.0 METERS FROM THE CENTERLINE OF AN ASPHALT DRIVEWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470008A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999949901	
<b>Elevation Adjust. Factor</b> 0.9999887228	
<b>Combined Adjust. Factor</b> 0.9999386244	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END CORRUGATED METAL PIPE	286	21.35	70.0
<b>MK # 2</b>	POWER POLE	312	16.65	54.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 237.4426 FEET
<b>Ref Mon # 2</b> VILLPORT	
<b>Ref Mon # 3</b> MANIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470009	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> N/A	<b>Job Number:</b> 100307,100654
--------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,835.7420	
<b>Easting (M)</b>	567,456.9950	
<b>Elevation (M)*</b>	73.332	
<b>Northing (SFT)</b>	563,764.4302	
<b>Easting (SFT)</b>	1,861,731.8244	
<b>Elevation (SFT)*</b>	240.590	

  

<b>Convergence Angle</b>	1	4	44.6150250
<b>Scale Factor</b>	0.999948160		
<b>Elevation Adjust. Factor</b>	0.9999884920		
<b>Combined Adjust. Factor</b>	0.9999366525		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	23.15	76.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 241.0261 FEET
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 52 4.7676756
<b>Longitude</b>	90 8 44.2466988
<b>Ellipsoid Height (M):</b>	45.405
<b>Geoid Height (M):</b>	-27.927

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO EAST 2.00 MILES TO MISSISSIPPI COUNTY ROAD N275. TURN LEFT (NORTH) ON MISSISSIPPI CO. RD. N275 0.42 MILES TO STATION ON THE RIGHT. THE STATION IS 5.50 METERS FROM THE CENTERLINE OF CO. RD. N275, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470009 2002" SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470009A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100307,100654
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,152.1309	
<b>Easting (M)</b>	567,465.8860	
<b>Elevation (M)*</b>	73.458	
<b>Northing (SFT)</b>	561,521.6161	
<b>Easting (SFT)</b>	1,861,760.9943	
<b>Elevation (SFT)*</b>	241.003	

  

<b>Convergence Angle</b>	1	4	44.5226092
<b>Scale Factor</b>	0.999947635		
<b>Elevation Adjust. Factor</b>	0.9999884722		
<b>Combined Adjust. Factor</b>	0.9999361078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	204	14.35	47.1
MK # 2	POWER POLE	31	26.60	87.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 240.6051 FEET
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470010	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100304
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,514.8350	
<b>Easting (M)</b>	572,165.8290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	556,149.9212	
<b>Easting (SFT)</b>	1,877,180.7240	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	6	32.7800912
<b>Scale Factor</b>	0.999946359		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO WEST 3.1 MILES ON HIGHWAY 18 TO THE STATION ON THE LEFT. THE STATION IS 18.6 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	86	23.15	76.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    VILLPORT</p> <p>Ref Mon # 3    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 238.0406 FEET</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470010A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100304
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,484.4670	
<b>Easting (M)</b>	571,600.2860	
<b>Elevation (M)*</b>	72.562	
<b>Northing (SFT)</b>	556,050.2888	
<b>Easting (SFT)</b>	1,875,325.2717	
<b>Elevation (SFT)*</b>	238.064	

  

<b>Convergence Angle</b>	1	6	19.6539859
<b>Scale Factor</b>	0.999946345		
<b>Elevation Adjust. Factor</b>	0.9999886128		
<b>Combined Adjust. Factor</b>	0.9999349584		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	271	29.75	97.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 235.9162 FEET
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 50 45.9272580
<b>Longitude</b>	90 6 0.9212076
<b>Ellipsoid Height (M):</b>	44.695
<b>Geoid Height (M):</b>	-27.867

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO WEST ON HIGHWAY 18 3.47 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.5 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010A 2002" SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470011	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100304
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,202.7539	
<b>Easting (M)</b>	577,879.8230	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	561,687.7018	
<b>Easting (SFT)</b>	1,895,927.3860	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	8	46.0442295
<b>Scale Factor</b>	0.999947520		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 0.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.90 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.8 METERS FROM THE CENTERLINE OF HIGHWAY 18, AN 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRUGATED METAL PIPE	90	2.00	6.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    VILLPORT</p> <p>Ref Mon # 3    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.3959 FEET</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470011A	<b>Date Monumented</b> 6/11/2002	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100304
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 171,653.6319		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 578,473.8960		<b>Latitude</b> 35 51 51.9068520
<b>Elevation (M)*</b> 		<b>Longitude</b> 90 1 25.3126740
<b>Northing (SFT)</b> 563,166.9573		<b>Ellipsoid Height (M):</b> 45.271
<b>Easting (SFT)</b> 1,897,876.4405		<b>Geoid Height (M):</b> -27.884
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 1 9 0.0303513	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 1.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 6.3 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.1 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 1.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP SET ON TOP OF A STEEL ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999947854	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRUGATED METAL PIPE	87	3.25	10.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.9906 FEET
<b>Ref Mon # 1</b> AHTD PAR 1	
<b>Ref Mon # 2</b> VILLPORT	
<b>Ref Mon # 3</b> MANIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470012	<b>Date Monumented</b> 1/3/2003	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 297	<b>Job Number:</b> 100105
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,702.4640	
<b>Easting (M)</b>	561,795.2130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	464,902.1673	
<b>Easting (SFT)</b>	1,843,156.4613	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	2	20.6287407
<b>Scale Factor</b>	0.999935962		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF BRIDGE	10	35.40	116.1
<b>MK # 2</b>	NORTHEAST CORNER OF METAL BUILDING	232	18.10	59.4
<b>MK # 3</b>	NORTHWEST CORNER OF BRIDGE	170	40.90	134.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 480016, Bloomfield CORS	
<b>Ref Mon # 2</b> MEM2, BUTLER	
<b>Ref Mon # 3</b> AHTD PAR 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 35 50.5715424
<b>Longitude</b>	90 12 51.6886992
<b>Ellipsoid Height (M):</b>	40.369
<b>Geoid Height (M):</b>	-27.668

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-14 AND HWY-297 EAST OF LEPANTO, GO SOUTH ON HWY-297 FOR 0.90 MILES TO THE STATION ON THE RIGHT, NORTHEAST OF A WATER TOWER. 10.5 METERS WEST OF THE CENTER OF HWY-297, 25.4 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED " 470012 2003 " SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470012A	<b>Date Monumented</b> 1/3/2003	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> N/A	<b>Job Number:</b> 100105
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,706.2240	
<b>Easting (M)</b>	560,998.1700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	464,914.5032	
<b>Easting (SFT)</b>	1,840,541.4961	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	2	2.2070638
<b>Scale Factor</b>	0.999935962		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM U.S. STATE HIGHWAY 14 AND 297 EAST OF LEPANTO GO SOUTH ON 297 FOR 0.85 MI TO A GRAVEL COUNTY ROAD W924 AND TURN RIGHT (WEST) AND GO 0.50 MI TO THE STATION ON THE RIGHT 5.20 METERS WEST OF A FIELD ROAD AND 8.70 METERS NORTH OF THE COUNTY ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470012A 2003" ON TOP OF A 1.22 METER LONG IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    480016, Bloomfield CORS Ref Mon # 2    MEM2, BUTLER Ref Mon # 3    AHTD PAR 1	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470013	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302,100663
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,760.8509	
<b>Easting (M)</b>	586,608.8110	
<b>Elevation (M)*</b>	75.965	
<b>Northing (SFT)</b>	586,484.5583	
<b>Easting (SFT)</b>	1,924,565.7408	
<b>Elevation (SFT)*</b>	249.228	

  

<b>Convergence Angle</b>	1	12	12.1425566
<b>Scale Factor</b>	0.999953773		
<b>Elevation Adjust. Factor</b>	0.9999880788		
<b>Combined Adjust. Factor</b>	0.9999418523		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 0.10 MILES TO THE STATION ON THE RIGHT. 83 FEET NORTHWEST OF THE CENTER OF HWY-18, 54 FEET SOUTHWEST OF THE CENTER OF A DRIVEWAY, 65 FEET NORTHEAST OF THE CENTER OF A DRIVEWAY AND 4.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470013 2003" SET ON TOP OF AN IRON ROD 4 FEET LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	320	1.68	5.5
MK # 2	POWER POLE W/METER	295	18.90	62.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> BLOOMFIELD C.O.R.S.</p> <p><b>Ref Mon # 2</b> MEM2 C.O.R.S.</p> <p><b>Ref Mon # 3</b> 470011, 470003</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran to mark from 1st Order NGS marks B189 &amp; E189 by crew S5102 &amp; S5110.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470014	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	174,639.9429	
<b>Easting (M)</b>	582,460.0500	
<b>Elevation (M)*</b>	74.111	
<b>Northing (SFT)</b>	572,964.5460	
<b>Easting (SFT)</b>	1,910,954.3474	
<b>Elevation (SFT)*</b>	243.146	

  

<b>Convergence Angle</b>	1	10	33.8925795
<b>Scale Factor</b>	0.999950187		
<b>Elevation Adjust. Factor</b>	0.9999883697		
<b>Combined Adjust. Factor</b>	0.9999385573		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.85 MI. TO THE STATION ON THE LEFT. 74.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 100.0 FEET NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 3.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	74	4.27	14.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BLOOMFIELD C.O.R.S.</p> <p>Ref Mon # 2: MEM2 C.O.R.S.</p> <p>Ref Mon # 3: 470011, 470003</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470014A	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> 100302
---------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	175,019.5779	
<b>Easting (M)</b>	582,959.7320	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	574,210.0652	
<b>Easting (SFT)</b>	1,912,593.7207	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	10	45.6654767
<b>Scale Factor</b>	0.999950499		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.40 MI. TO THE STATION ON THE LEFT. 73.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 44 FEET SOUTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 3.8 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014A 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	120	1.98	6.5
MK # 2	16 INCH CMP	25	9.66	31.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1: BLOOMFIELD C.O.R.S. Ref Mon # 2: MEM2 C.O.R.S. Ref Mon # 3: 470011, 470003	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470015	<b>Date Monumented</b> 11/18/2008	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> NA	<b>Job Number:</b> 100663, 100716, 100724
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	178,666.9239
<b>Easting (M)</b>	588,615.1100
<b>Elevation (M)*</b>	78.337
<b>Northing (SFT)</b>	586,176.3995
<b>Easting (SFT)</b>	1,931,148.0734
<b>Elevation (SFT)*</b>	257.011

  

<b>Convergence Angle</b>	1 12 58.6587925
<b>Scale Factor</b>	0.999953645
<b>Elevation Adjust. Factor</b>	0.9999877065
<b>Combined Adjust. Factor</b>	0.9999413521

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>		3rd Order - 3 Wire Level	
<b>Elevation Datum:</b>		NAVD 88	
<b>Geoid Datum:</b>			
<b>Latitude</b>	35 55	32.6214372	
<b>Longitude</b>	89 54	35.2270944	
<b>Ellipsoid Height (M):</b>	50.321		
<b>Geoid Height (M):</b>	-28.016		

  

<b>Location Description</b>
<p>To reach the station from the junction of Hwy-61 and Hwy-18 east in Blytheville go east on Hwy-18 for 0.50 mi. to south Elm street. Turn right on S Elm St. and go one block to Sycamore St., continue ahead to the old railroad fill and the station on the left. 52.0 feet south of the center of Sycamore St., 38.0 feet north of the center of a driveway, 25.0 feet east of the center of Elm St and 16.50 feet east of a witness post set next to a power pole. The station mark is a 2 1/2 inch cap stamped "470015 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole w/guy	203	5.18	17.0
<b>MK # 2</b>	USGS BM E 189	300	23.47	77.0
<b>MK # 3</b>	Center of a drop inlet	352	26.82	88.0

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    TN42 TN45</p> <p><b>Ref Mon # 2</b>    ARPG</p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <p>Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 &amp; E189.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470015A	<b>Date Monumented</b> 11/18/2008	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> NA	<b>Job Number:</b> 100663, 100716, 100724
---------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,652.4439	
<b>Easting (M)</b>	588,193.2160	
<b>Elevation (M)*</b>	77.988	
<b>Northing (SFT)</b>	586,128.8930	
<b>Easting (SFT)</b>	1,929,763.9095	
<b>Elevation (SFT)*</b>	255.867	

  

<b>Convergence Angle</b>	1	12	48.8604277
<b>Scale Factor</b>	0.999953640		
<b>Elevation Adjust. Factor</b>	0.9999877612		
<b>Combined Adjust. Factor</b>	0.9999414018		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	245	7.77	25.5
<b>MK # 2</b>	Gate post and fence corner	97	10.66	35.0
<b>MK # 3</b>	Sewer manhole	25	19.51	64.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TN42   TN45	Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 & E189.
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470016	<b>Date Monumented</b> 2/2/2010	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 148	<b>Job Number:</b> 100723,100716,100998
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,858.5849	
<b>Easting (M)</b>	596,065.0780	
<b>Elevation (M)*</b>	76.773	
<b>Northing (SFT)</b>	563,839.3740	
<b>Easting (SFT)</b>	1,955,590.1767	
<b>Elevation (SFT)*</b>	251.878	

  

<b>Convergence Angle</b>	1	15	48.0686768
<b>Scale Factor</b>	0.999947727		
<b>Elevation Adjust. Factor</b>	0.9999879520		
<b>Combined Adjust. Factor</b>	0.9999356797		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH GUY	142	1.95	6.4
<b>MK # 2</b>	SOUTH END CULVERT	302	9.82	32.2
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> EDM2 <b>Ref Mon # 3</b> TN42	THREE WIRE LEVELS RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.

  

Location Description
THE STATION, SOUTH OF BLYTHEVILLE, IS LOCATED SOUTH OF THE JUNCTION OF STATE HIGHWAY 151 & 148, 37.3 FEET SOUTH OF THE C/L OF STATE HIGHWAY 148, 36.3 FEET WEST OF C/L OF COUNTY ROAD N839, 6.8 FEET NORTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470016 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	470016A
<b>Geodetic Azimuth</b>	273 20 55
<b>Grid Azimuth</b>	272 05 07

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470016A	<b>Date Monumented</b> 2/2/2010	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 148	<b>Job Number:</b> 100723,100716,100998
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,875.7099	
<b>Easting (M)</b>	595,594.7420	
<b>Elevation (M)*</b>	77.243	
<b>Northing (SFT)</b>	563,895.5582	
<b>Easting (SFT)</b>	1,954,047.0827	
<b>Elevation (SFT)*</b>	253.421	

  

<b>Convergence Angle</b>	1	15	37.1706797
<b>Scale Factor</b>	0.999947748		
<b>Elevation Adjust. Factor</b>	0.9999878782		
<b>Combined Adjust. Factor</b>	0.9999356269		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH METER	90	45.78	150.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	THREE WIRE LEVEL RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.
Ref Mon # 2 EDM2	
Ref Mon # 3 TN42	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470017	<b>Date Monumented</b> 2/4/2010	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 312	<b>Job Number:</b> 100BR4, 100716, 100724
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	177,459.3439	
<b>Easting (M)</b>	591,611.0890	
<b>Elevation (M)*</b>	83.074	
<b>Northing (SFT)</b>	582,214.5308	
<b>Easting (SFT)</b>	1,940,977.3812	
<b>Elevation (SFT)*</b>	272.551	

  

<b>Convergence Angle</b>	1	14	7.5840198
<b>Scale Factor</b>	0.999952476		
<b>Elevation Adjust. Factor</b>	0.9999869632		
<b>Combined Adjust. Factor</b>	0.9999394398		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 239 AND STATE HIGHWAY 312, WEST OF BLYTHEVILLE, GO EAST ON 312 FOR 0.8 MILES TO THE MARK ON THE RIGHT AT THE SOUTHEAST CORNER OF THE 312 OVERPASS OVER I 55, SOUTH 22 FEET OF THE CENTERLINE OF 312 AND SOUTH 4.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1 1/2 INCH CAP STAMPED "470017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE END	311	5.61	18.4
MK # 2	12 INCH CMP	100	5.49	18.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ARPG"/></p> <p>Ref Mon # 2    <input type="text" value="TN42"/></p> <p>Ref Mon # 3    <input type="text" value="EDM2"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470017A	<b>Date Monumented</b> 2/4/2010	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 312	<b>Job Number:</b> 100BR4, 100716, 100724
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	177,486.5229	
<b>Easting (M)</b>	592,275.6260	
<b>Elevation (M)*</b>	75.606	
<b>Northing (SFT)</b>	582,303.7005	
<b>Easting (SFT)</b>	1,943,157.6163	
<b>Elevation (SFT)*</b>	248.049	

  

<b>Convergence Angle</b>	1	14	23.0177744
<b>Scale Factor</b>	0.999952487		
<b>Elevation Adjust. Factor</b>	0.9999881352		
<b>Combined Adjust. Factor</b>	0.9999406227		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF CHAINLINK FENC	0	6.77	22.2
<b>MK # 2</b>	SOUTHEAST CORNER OF CHAINLINK FENC	47	9.78	32.1
<b>MK # 3</b>	TELEPHONE RISER	105	14.69	48.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG	THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.
<b>Ref Mon # 2</b> TN42	
<b>Ref Mon # 3</b> EDM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470018	<b>Date Monumented</b> 10/21/2010	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> CR-N757	<b>Job Number:</b> 10786_6
--------------------------	--------------------------------------	------------------------------	------------------------------	-------------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	186,745.2439	
<b>Easting (M)</b>	591,559.7400	
<b>Elevation (M)*</b>	77.268	
<b>Northing (SFT)</b>	612,680.0210	
<b>Easting (SFT)</b>	1,940,808.9137	
<b>Elevation (SFT)*</b>	253.503	

  

<b>Convergence Angle</b>	1	14	11.0429726
<b>Scale Factor</b>	0.999961936		
<b>Elevation Adjust. Factor</b>	0.9999878743		
<b>Combined Adjust. Factor</b>	0.9999498107		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Light Pole	146	7.62	25.0
<b>MK # 2</b>	End of Guardrail	4	11.89	39.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MOKE <b>Ref Mon # 3</b> TNS@	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 52.6257564
<b>Longitude</b>	89 52 30.8340912
<b>Ellipsoid Height (M):</b>	49.099
<b>Geoid Height (M):</b>	-28.169

Location Description
To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) to the station on the right just past the southbound weigh station; 4 feet east of a guardrail, 4 feet east of the witness post, 22 feet east of the centerline of service road CR-N757, 35 feet west of the centerline of the southbound weigh station entrance ramp, 102 feet west of the centerline of southbound I-55, the station mark is a 2 1/2 inch aluminum cap stamped "470018 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

<b>AZ Mark Station</b>	470018A
<b>Geodetic Azimuth</b>	179 04 07
<b>Grid Azimuth</b>	177 49 56

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470018A	<b>Date Monumented</b> 10/21/2010	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> CR-N757	<b>Job Number:</b> 10786_6,101009
---------------------------	--------------------------------------	------------------------------	------------------------------	-------------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	186,115.6919	
<b>Easting (M)</b>	591,583.5690	
<b>Elevation (M)*</b>	77.295	
<b>Northing (SFT)</b>	610,614.5658	
<b>Easting (SFT)</b>	1,940,887.0926	
<b>Elevation (SFT)*</b>	253.592	

  

<b>Convergence Angle</b>	1	14	11.2808539
<b>Scale Factor</b>	0.999961227		
<b>Elevation Adjust. Factor</b>	0.9999878700		
<b>Combined Adjust. Factor</b>	0.9999490975		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	End of guardrail	92	7.62	25.0
<b>MK # 2</b>	East end of 24 inch concrete culvert	6	3.96	13.0
<b>MK # 3</b>	Northeast end of headwall over Pemiscot	182	66.75	219.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MOKE <b>Ref Mon # 3</b> TN42	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 32.1875808
<b>Longitude</b>	89 52 30.4252896
<b>Ellipsoid Height (M):</b>	49.137
<b>Geoid Height (M):</b>	-28.158

Location Description
To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.4 miles to the station on the right; 3 feet south of the southeast end of the headwall of a cross culvert, 3 feet south of the witness post, 20 feet east of the centerline of the service road (CR-N757), 75 feet west of the centerline of I-55 southbound, the station mark is a 2 1/2 inch aluminum cap stamped "470018A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

<b>AZ Mark Station</b>	470018
<b>Geodetic Azimuth</b>	359 04 08
<b>Grid Azimuth</b>	357 49 56

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470019	<b>Date Monumented</b> 10/21/2010	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> CR-E2	<b>Job Number:</b> 10786_6
--------------------------	--------------------------------------	------------------------------	------------------------------	-----------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	186,847.2940	
<b>Easting (M)</b>	588,616.0440	
<b>Elevation (M)*</b>	76.968	
<b>Northing (SFT)</b>	613,014.8304	
<b>Easting (SFT)</b>	1,931,151.1377	
<b>Elevation (SFT)*</b>	252.519	

  

<b>Convergence Angle</b>	1	13	2.7149748
<b>Scale Factor</b>	0.999962124		
<b>Elevation Adjust. Factor</b>	0.9999879214		
<b>Combined Adjust. Factor</b>	0.9999500458		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole with guy	3	20.12	66.0
<b>MK # 2</b>	Railroad mile marker	170	12.80	42.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MOKE <b>Ref Mon # 3</b> TN42	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 57.9811416
<b>Longitude</b>	89 54 28.2565008
<b>Ellipsoid Height (M):</b>	48.791
<b>Geoid Height (M):</b>	-28.177

Location Description
To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.5 miles crossing US-61 and the railroad tracks to the station on the left. The station is in the southwest quadrant of the railroad and CR-E2 intersection; 1.5 feet south of the witness post, 26 feet south of the centerline of CR-E2, 53 feet west of the east rail, 63 feet southwest of the center of the railroad crossing, the station mark is a 2 1/2 inch aluminum cap stamped "470019 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470019A	<b>Date Monumented</b> 10/21/2010	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> CR-N695	<b>Job Number:</b> 10786_6,101009
---------------------------	--------------------------------------	------------------------------	------------------------------	-------------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	186,365.7999	
<b>Easting (M)</b>	588,438.4350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	611,435.1285	
<b>Easting (SFT)</b>	1,930,568.4322	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	12	58.3518088
<b>Scale Factor</b>	0.999961583		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	east end of 36 inch RCP culvert	305	8.23	27.0
<b>MK # 2</b>	north end of 18 inch CMP culvert	275	3.96	13.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> MOKE <b>Ref Mon # 3</b> TN42	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 42.4846428
<b>Longitude</b>	89 54 35.7546492
<b>Ellipsoid Height (M):</b>	49.275
<b>Geoid Height (M):</b>	-28.169

Location Description
To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.6 miles crossing US-61 and the railroad tracks then turn left (south) on gravel road (CR-N695) for 0.3 miles to the station on the left. The station is in the southeast quadrant of the drainage ditch junction; 1.5 feet south of the witness post, 36 feet east of the centerline of CR-695, 15 feet south of the centerline of the east-west drainage ditch, 13 feet east of the north-south drainage ditch. The station mark is a 2 1/2 inch aluminum cap stamped "470019A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

<b>AZ Mark Station</b>	470019
<b>Geodetic Azimuth</b>	21 27 50
<b>Grid Azimuth</b>	20 14 51

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470020	<b>Date Monumented</b> 3/4/2013	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> ackson rd	<b>Job Number:</b> 100760
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	153,595.8151	
<b>Easting (M)</b>	560,836.2252	
<b>Elevation (M)*</b>	69.773	
<b>Northing (SFT)</b>	503,922.2700	
<b>Easting (SFT)</b>	1,840,010.1822	
<b>Elevation (SFT)*</b>	228.913	

  

<b>Convergence Angle</b>	1	2	3.4253287
<b>Scale Factor</b>	0.999938138		
<b>Elevation Adjust. Factor</b>	0.9999890505		
<b>Combined Adjust. Factor</b>	0.9999271891		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of power pole	275	1.52	5.0
MK # 2	North of power pole	182	51.82	170.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470020A	<b>Date Monumented</b> 3/4/2013	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> Hwy. 140	<b>Job Number:</b> 100760
---------------------------	------------------------------------	------------------------------	------------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	152,985.5797	
<b>Easting (M)</b>	560,691.3557	
<b>Elevation (M)*</b>	69.958	
<b>Northing (SFT)</b>	501,920.1894	
<b>Easting (SFT)</b>	1,839,534.8895	
<b>Elevation (SFT)*</b>	229.519	

  

<b>Convergence Angle</b>	1	1	59.8175211
<b>Scale Factor</b>	0.999937942		
<b>Elevation Adjust. Factor</b>	0.9999890215		
<b>Combined Adjust. Factor</b>	0.9999269642		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of Hwy. 77 and Hwy. 140 in Etowah. Go East on Hwy. 140 for 0.3 miles to station on the right. The station is 4 ft. North of the witness post, and 41 ft. South of the centerline of Hwy. 140. The station mark is a 2 1/2 in. cap stamped "470020A 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast of telephone box	220	2.74	9.0
MK # 2	Northeast of 48 in. Sicamore tree	255	35.66	117.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.         </td> </tr> </table>	Comments	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
Comments			
ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470021	<b>Date Monumented</b> 3/4/2013	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> 77	<b>Job Number:</b> 100760
--------------------------	------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	146,654.1350	
<b>Easting (M)</b>	558,557.3328	
<b>Elevation (M)*</b>	68.908	
<b>Northing (SFT)</b>	481,147.7746	
<b>Easting (SFT)</b>	1,832,533.5160	
<b>Elevation (SFT)*</b>	226.076	

  

<b>Convergence Angle</b>	1	1	7.8219000
<b>Scale Factor</b>	0.999936451		
<b>Elevation Adjust. Factor</b>	0.9999891862		
<b>Combined Adjust. Factor</b>	0.9999256379		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST OF NORTHEAST BUILDING CORNER	271	19.66	64.5
<b>MK # 2</b>	SOUTHEAST OF SOUTHEAST BUILDING CORNER	317	27.74	91.0
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	470021A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470021A	<b>Date Monumented</b> 3/4/2013	<b>Monumented By</b> AHTD	<b>County</b> MISSISSIPPI	<b>Route</b> Co. rd. 780	<b>Job Number:</b> 100760
---------------------------	------------------------------------	------------------------------	------------------------------	-----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	146,486.9754	
<b>Easting (M)</b>	559,046.8477	
<b>Elevation (M)*</b>	70.006	
<b>Northing (SFT)</b>	480,599.3518	
<b>Easting (SFT)</b>	1,834,139.5328	
<b>Elevation (SFT)*</b>	229.677	

  

<b>Convergence Angle</b>	1	1	19.0742262
<b>Scale Factor</b>	0.999936423		
<b>Elevation Adjust. Factor</b>	0.9999890139		
<b>Combined Adjust. Factor</b>	0.9999254376		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Southeast of Power pole	318	19.51	64.0
<b>MK # 2</b>	Northeast of well head	234	16.46	54.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470022	<b>Date Monumented</b> 2/19/2019	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> 61	<b>Job Number:</b> 100980
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	146,254.4656	0.0010	
<b>Easting (M)</b>	582,617.7990	0.0010	
<b>Elevation (M)*</b>	71.958	0.0026	
<b>Northing (SFT)</b>	479,836.5259		
<b>Easting (SFT)</b>	1,911,471.8956		
<b>Elevation (SFT)*</b>	236.083		

  

<b>Convergence Angle</b>	1	10	24.0651195
<b>Scale Factor</b>	0.999936323		
<b>Elevation Adjust. Factor</b>	0.9999887075		
<b>Combined Adjust. Factor</b>	0.9999250312		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE	215	36.58	120.0
MK # 2	RR SIGNAL POLE	71	37.80	124.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AROC <b>Ref Mon # 2</b> TN45 <b>Ref Mon # 3</b> ZME1	Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

  

Location Description	
TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 4.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FEET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 38 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.	

  

<b>AZ Mark Station</b>	470022A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470022A	<b>Date Monumented</b> 2/19/2019	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> 61	<b>Job Number:</b> 100980
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	146,616.1117    0.0010
<b>Easting (M)</b>	582,850.5494    0.0010
<b>Elevation (M)*</b>	72.822    0.0026
<b>Northing (SFT)</b>	481,023.0265
<b>Easting (SFT)</b>	1,912,235.5108
<b>Elevation (SFT)*</b>	238.917

  

<b>Convergence Angle</b>	1    10    29.6187834
<b>Scale Factor</b>	0.999936374
<b>Elevation Adjust. Factor</b>	0.9999885720
<b>Combined Adjust. Factor</b>	0.9999249467

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR</p> <p>4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FEET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 46 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022A, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	245	7.62	25.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AROC	Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
<b>Ref Mon # 2</b> TN45	
<b>Ref Mon # 3</b> ZME1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470023	<b>Date Monumented</b> 2/19/2019	<b>Monumented By</b> AHTD	<b>County</b> Mississippi	<b>Route</b> 198	<b>Job Number:</b> 100980
--------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	148,470.2830 0.0010
<b>Easting (M)</b>	586,522.0623 0.0010
<b>Elevation (M)*</b>	74.681 0.0030
<b>Northing (SFT)</b>	487,106.2535
<b>Easting (SFT)</b>	1,924,281.1327
<b>Elevation (SFT)*</b>	245.015

  

<b>Convergence Angle</b>	1 11 55.4192791
<b>Scale Factor</b>	0.999936674
<b>Elevation Adjust. Factor</b>	0.9999882803
<b>Combined Adjust. Factor</b>	0.9999249551

  

SUPERCEDDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 39 14.4678960
<b>Longitude</b>	89 56 23.9048880
<b>Ellipsoid Height (M):</b>	47.059 0.0030
<b>Geoid Height (M):</b>	-27.628

  

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 2.6 MILES TO THE STATION ON THE LEFT. THE STATION IS 49 FEET NORTH OF THE CENTERLINE OF</p> <p>STATE HIGHWAY 198, 49 FEET WEST OF THE CENTER OF THE ENTRANCE TO BUNGE INC. AND 6 FEET SOUTH OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470023, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST GATE POST	68	7.92	26.0
MK # 2	WEST END 30" CPM	263	6.10	20.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> AROC <b>Ref Mon # 2</b> TN45 <b>Ref Mon # 3</b> ZME1	<b>Comments</b> Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470023A	<b>Date Monumented</b> 6/22/1905	<b>Monumented By</b> COE	<b>County</b> Mississippi	<b>Route</b> 198	<b>Job Number:</b> 100980
---------------------------	-------------------------------------	-----------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	148,458.9634 0.0010
<b>Easting (M)</b>	587,054.8827 0.0010
<b>Elevation (M)*</b>	81.671 0.0030
<b>Northing (SFT)</b>	487,069.1158
<b>Easting (SFT)</b>	1,926,029.2277
<b>Elevation (SFT)*</b>	267.949

  

<b>Convergence Angle</b>	1 12 7.7376321
<b>Scale Factor</b>	0.999936670
<b>Elevation Adjust. Factor</b>	0.9999871833
<b>Combined Adjust. Factor</b>	0.9999238541

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> GEOID12B	<b>Latitude</b> 35 39 13.7384640
<b>Longitude</b> 89 56 2.7356640	<b>Ellipsoid Height (M):</b> 54.049 0.0000
<b>Geoid Height (M):</b> -27.622	

  

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 107 FEET SOUTHEAST OF THE CENTERLINE OF STATE HIGHWAY 198, 18 FEET NORTHWEST OF THE CENTER OF THE LEVEE AND A METAL GATE AND 9 FEET NORTH OF A WITNESS POST. THE MARK IS A 3" C.O.E. ALUMINIUM CAP STAMPED SP-12-2000 SET ON TOP OF A IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONC STAND PIPE	310	3.05	10.0
MK # 2	WEST GATE POST	175	3.35	11.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470024	<b>Date Monumented</b> 8/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> CR 567	<b>Job Number:</b> 100098
--------------------------	------------------------------------	-------------------------------	------------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	165,682.0646	0.0020	
<b>Easting (M)</b>	582,418.4341	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	543,575.2403		
<b>Easting (SFT)</b>	1,910,817.8125		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	10	28.6663428
<b>Scale Factor</b>	0.999943664		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	179	31.10	102.0
MK # 2	POWER POLE W/TRANSFORMER	3	54.25	178.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2: ARPG	
Ref Mon # 3: MOKE, TN45	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470024A	<b>Date Monumented</b> 8/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> 148	<b>Job Number:</b> 100098
---------------------------	------------------------------------	-------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	166,115.1097	0.0030	
<b>Easting (M)</b>	582,404.7871	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	544,995.9891		
<b>Easting (SFT)</b>	1,910,773.0390		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	10	28.5558443
<b>Scale Factor</b>	0.999943934		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	13	14.02	46.0
MK # 2	POWER POLE W/2 GUYS	163	10.05	33.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MOKE, TN45	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    48    49.6479240
<b>Longitude</b>	89    58    53.1806484
<b>Ellipsoid Height (M):</b>	43.525    0.0140
<b>Geoid Height (M):</b>	-27.867    0.0140

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 55 AND STATE HIGHWAY 148, SOUTH OF BLYTHEVILLE, GO WEST ON HIGHWAY 148 0.55 TO THE MARK ON THE LEFT, SOUTH 88' OF THE C/L OF THE HIGHWAY AND WEST 48' OF THE C/L OF COUNTY ROAD 567. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470024A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470025	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> 61	<b>Job Number:</b> 101017, AIRBORNE 2020
--------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------	---

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	127,963.0454	0.0020			
<b>Easting (M)</b>	565,384.8391	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	419,825.4248				
<b>Easting (SFT)</b>	1,854,933.4263				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	3	37.7217831
<b>Scale Factor</b>	0.999937812		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARPG	STATIC GPS DERIVED ELEV. 225.7758
Ref Mon # 2    AROC	
Ref Mon # 3    ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470025A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> 61	<b>Job Number:</b> 101017, AIRBORNE 2020
---------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	128,385.0536	0.0020			
<b>Easting (M)</b>	565,652.5103	0.0010			
<b>Elevation (M)*</b>	70.053				
<b>Northing (SFT)</b>	421,209.9634				
<b>Easting (SFT)</b>	1,855,811.6109				
<b>Elevation (SFT)*</b>	229.832				

  

<b>Convergence Angle</b>	1	3	44.0798413
<b>Scale Factor</b>	0.999937687		
<b>Elevation Adjust. Factor</b>	0.9999890065		
<b>Combined Adjust. Factor</b>	0.9999266942		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 207 AND STATE HIGHWAY 61, NORTH OF MARION, GO NORTH ON HIGHWAY 61 0.9 MILES TO THE MARK ON THE RIGHT, EAST 17.0' OF THE C/L OF THE HIGHWAY AND 154.2' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470025A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					470025A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARPG	ELEV. BASED ON DIGITAL LEVELS FROM GPS #470025, WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 2    AROC	
Ref Mon # 3    ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480001	<b>Date Monumented</b> 1/19/1995	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> 110123
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	621,436.4840	
<b>Easting (M)</b>	456,699.4650	
<b>Elevation (M)*</b>	65.621	
<b>Northing (SFT)</b>	2,038,829.5313	
<b>Easting (SFT)</b>	1,498,354.8281	
<b>Elevation (SFT)*</b>	215.292	

  

<b>Convergence Angle</b>	0	20	46.3793748
<b>Scale Factor</b>	0.999978254		
<b>Elevation Adjust. Factor</b>	0.9999897020		
<b>Combined Adjust. Factor</b>	0.9999679563		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	226	16.20	53.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ROE	
Ref Mon # 3 NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 39 41.6551140
<b>Longitude</b>	91 22 53.0925240
<b>Ellipsoid Height (M):</b>	38.174
<b>Geoid Height (M):</b>	-27.447

Location Description
<p>FROM THE JCT. OF HWY. 79 AND HWY. 33 IN THE TOWN OF ROE SOUTHWEST OF CLARENDON, GO NORTH ON HWY. 79 FOR 3.347 KM (2.08 MILES) TO THE STATION ON THE LEFT. THE STATION IS ALSO 1.40 KM (0.87 MILES) SOUTH OF A RELIEF BRIDGE AT LOG MILE 5.36. THE STATION IS 17.80 METERS NORTHWEST OF THE CENTERLINE OF HWY. 79, 73 METERS SOUTHWEST OF A DRIVEWAY AND 1.65 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480001A	<b>Date Monumented</b> 1/19/1995	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> 110123
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	621,891.5620	
<b>Easting (M)</b>	457,209.5630	
<b>Elevation (M)*</b>	61.183	
<b>Northing (SFT)</b>	2,040,322.5663	
<b>Easting (SFT)</b>	1,500,028.3746	
<b>Elevation (SFT)*</b>	200.731	

  

<b>Convergence Angle</b>	0	20	57.6531723
<b>Scale Factor</b>	0.999979034		
<b>Elevation Adjust. Factor</b>	0.9999903985		
<b>Combined Adjust. Factor</b>	0.9999694327		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" ELM TREE	201	22.00	72.2
MK # 2	18" SWEET GUM	60	25.50	83.7
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ROE	
Ref Mon # 3 NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 39 56.3226876
<b>Longitude</b>	91 22 32.9496168
<b>Ellipsoid Height (M):</b>	33.731
<b>Geoid Height (M):</b>	-27.452

Location Description
<p>FROM THE JCT. OF HWY. 79 AND HWY. 33 IN THE TOWN OF ROE SOUTHWEST OF CLARENDON, GO NORTH ON HWY. 79 FOR 4.023 KM (2.50 MILES) TO THE STATION ON THE RIGHT IN A GRAVEL PULL-OVER. THE STATION IS ALSO 0.724 KM (0.45 MILES) SOUTH OF A RELIEF BRIDGE AT LOG MILE 5.36. THE STATION IS 11.0 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAPSTAMPED "480001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480002	<b>Date Monumented</b> 1/19/1995	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> 110123
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	625,065.3529	
<b>Easting (M)</b>	465,123.6430	
<b>Elevation (M)*</b>	53.154	
<b>Northing (SFT)</b>	2,050,735.2453	
<b>Easting (SFT)</b>	1,525,993.1521	
<b>Elevation (SFT)*</b>	174.389	

  

<b>Convergence Angle</b>	0	23	52.1096775
<b>Scale Factor</b>	0.999984563		
<b>Elevation Adjust. Factor</b>	0.9999916585		
<b>Combined Adjust. Factor</b>	0.9999762216		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS VALVE	50	2.80	9.2
<b>MK # 2</b>	END OF 24" METAL PIPE	100	21.70	71.2
<b>MK # 3</b>	3" STEEL POST	170	1.40	4.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="ROE"/>	
<b>Ref Mon # 3</b> <input type="text" value="NONE"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 41 37.6421604
<b>Longitude</b>	91 17 21.2479764
<b>Ellipsoid Height (M):</b>	25.665
<b>Geoid Height (M):</b>	-27.489

Location Description
<p>FROM THE JCT. OF HWY. 79 AND HWY. 79B ON THE SOUTHEAST SIDE OF CLARENDON, GO NORTH ON HWY. 79 FOR 0.805 KM (0.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.4 METERS NORTH OF THE CENTERLINE OF HWY. 79, 28.7 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 2.6 METERS EAST OF THE EDGE OF A DRAINAGE DITCH AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480002" SET ON TOPOF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480002A	<b>Date Monumented</b> 1/19/1995	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> 110123
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	625,019.6960	
<b>Easting (M)</b>	465,811.4250	
<b>Elevation (M)*</b>	55.471	
<b>Northing (SFT)</b>	2,050,585.4526	
<b>Easting (SFT)</b>	1,528,249.6502	
<b>Elevation (SFT)*</b>	181.991	

  

<b>Convergence Angle</b>	0	24	7.2268972
<b>Scale Factor</b>	0.999984472		
<b>Elevation Adjust. Factor</b>	0.9999912949		
<b>Combined Adjust. Factor</b>	0.9999757670		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 79 AND HWY. 79B ON THE SOUTHEAST SIDE OF CLARENDON, GO NORTH ON HWY. 79 FOR 1.48 KM (0.92 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 18.2 METERS SOUTH OF THE CENTER OF HWY. 79, 53.5 METERS EAST OF THE CENTER OF HWY. 86 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	90	16.70	54.8
MK # 2	POWER POLE	260	26.60	87.3
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ROE"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="NONE"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480003	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	31,550.2221				
<b>Easting (M)</b>	485,872.5998				
<b>Elevation (M)*</b>	55.335				
<b>Northing (SFT)</b>	103,511.0203				
<b>Easting (SFT)</b>	1,594,067.0212				
<b>Elevation (SFT)*</b>	181.545				

  

<b>Convergence Angle</b>	0	32	41.2739884
<b>Scale Factor</b>	1.000078095		
<b>Elevation Adjust. Factor</b>	0.9999913162		
<b>Combined Adjust. Factor</b>	1.0000694105		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 12.38 KM (7.69 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 5.00 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT <b>Ref Mon # 2</b> BRINKLEYPORT <b>Ref Mon # 3</b> H 349	ELEVATION BY 3 WIRE FROM NGS POINT T 170

  

<b>AZ Mark Station</b>	480003A
<b>Geodetic Azimuth</b>	140 12 55.64848
<b>Grid Azimuth</b>	139 40 14.27174

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480003A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	31,100.4042	
<b>Easting (M)</b>	486,254.4679	
<b>Elevation (M)*</b>	54.923	
<b>Northing (SFT)</b>	102,035.2428	
<b>Easting (SFT)</b>	1,595,319.8668	
<b>Elevation (SFT)*</b>	180.193	

  

<b>Convergence Angle</b>	0	32	49.8969654
<b>Scale Factor</b>	1.000079292		
<b>Elevation Adjust. Factor</b>	0.9999913809		
<b>Combined Adjust. Factor</b>	1.0000706722		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST END CONCRETE HEADWALL	142	26.60	87.3
<b>MK # 2</b>	NORTHWEST END OF CMP	71	6.20	20.3
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMYPORT <b>Ref Mon # 2</b> BRINKLEYPORT <b>Ref Mon # 3</b> H 349	ELEVATION BY 3 WIRE FROM NGS POINT T 170

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 34 36 35.7998796

**Longitude** 91 3 34.7105736

**Ellipsoid Height (M):** 28.314

**Geoid Height (M):** -26.688

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 13.10 KM (8.14 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 6.50 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480004	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	35,411.4471	
<b>Easting (M)</b>	483,763.4987	
<b>Elevation (M)*</b>	55.313	
<b>Northing (SFT)</b>	116,179.0560	
<b>Easting (SFT)</b>	1,587,147.4120	
<b>Elevation (SFT)*</b>	181.473	

  

<b>Convergence Angle</b>	0	31	53.9245668
<b>Scale Factor</b>	1.000068047		
<b>Elevation Adjust. Factor</b>	0.9999913197		
<b>Combined Adjust. Factor</b>	1.0000593661		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 7.71 KM (4.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480004A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	34,996.9428	
<b>Easting (M)</b>	484,065.2568	
<b>Elevation (M)*</b>	55.398	
<b>Northing (SFT)</b>	114,819.1365	
<b>Easting (SFT)</b>	1,588,137.4300	
<b>Elevation (SFT)*</b>	181.752	

  

<b>Convergence Angle</b>	0	32	0.7308929
<b>Scale Factor</b>	1.000069110		
<b>Elevation Adjust. Factor</b>	0.9999913063		
<b>Combined Adjust. Factor</b>	1.0000604157		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 8.10 KM (5.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 90.00 METERS SOUTHEAST OF THE EXTENDED CENTER OF STATE HIGHWAY 362, 9.40 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480005	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385,110672
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 38,558.3913		<b>Latitude</b> 34 40 39.6506928
<b>Easting (M)</b> 480,053.0010		<b>Longitude</b> 91 7 35.4940644
<b>Elevation (M)*</b> 56.074		<b>Ellipsoid Height (M):</b> 29.470
		<b>Geoid Height (M):</b> -26.648

  

<b>Northing (SFT)</b> 126,503.6555		<b>Location Description</b>
<b>Easting (SFT)</b> 1,574,973.8874		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 2.82 KM (1.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "480005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.889 METERS.</p>
<b>Elevation (SFT)*</b> 183.969		

  

<b>Convergence Angle</b> 0 30 29.7852620	
<b>Scale Factor</b> 1.000060086	
<b>Elevation Adjust. Factor</b> 0.9999912002	
<b>Combined Adjust. Factor</b> 1.0000512857	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CMP	176	4.40	14.4
MK # 2	WEST END CMP	279	5.30	17.4
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT <b>Ref Mon # 2</b> BRINKLEYPORT <b>Ref Mon # 3</b> H 349	ELEVATION BY 3 WIRE FROM NGS POINT T 170

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480005A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	38,176.5526	
<b>Easting (M)</b>	480,634.8217	
<b>Elevation (M)*</b>	55.120	
<b>Northing (SFT)</b>	125,250.9063	
<b>Easting (SFT)</b>	1,576,882.7442	
<b>Elevation (SFT)*</b>	180.840	

  

<b>Convergence Angle</b>	0	30	43.0053522
<b>Scale Factor</b>	1.000061041		
<b>Elevation Adjust. Factor</b>	0.9999913499		
<b>Combined Adjust. Factor</b>	1.0000523904		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 3.49 KM (2.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.889 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ALMYPORT</p> <p><b>Ref Mon # 2</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 3</b>    H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480006	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385,110672
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	42,506.4441	
<b>Easting (M)</b>	477,995.0978	
<b>Elevation (M)*</b>	55.700	
<b>Northing (SFT)</b>	139,456.5587	
<b>Easting (SFT)</b>	1,568,222.2500	
<b>Elevation (SFT)*</b>	182.742	

  

<b>Convergence Angle</b>	0	29	43.5300659
<b>Scale Factor</b>	1.000050504		
<b>Elevation Adjust. Factor</b>	0.9999912589		
<b>Combined Adjust. Factor</b>	1.0000417625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CROSS TIE GATE POST	6	9.50	31.2
<b>MK # 2</b>	SOUTH END CMP	23	11.10	36.4
<b>MK # 3</b>	NORTH END CONCRETE HEADWALL	152	12.00	39.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT T 170
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 42 48.3435648
<b>Longitude</b>	91 8 54.9841236
<b>Ellipsoid Height (M):</b>	29.089
<b>Geoid Height (M):</b>	-26.653

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 1.79 (1.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.70 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 13.20 METER SOUTH OF A FIELD ENTRANCE AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.888 METERS.</p>

<b>AZ Mark Station</b>	480006A
<b>Geodetic Azimuth</b>	180 49 23.94510
<b>Grid Azimuth</b>	180 19 40.41761

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480006A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	41,772.5318	
<b>Easting (M)</b>	477,990.8977	
<b>Elevation (M)*</b>	55.725	
<b>Northing (SFT)</b>	137,048.7147	
<b>Easting (SFT)</b>	1,568,208.4702	
<b>Elevation (SFT)*</b>	182.824	

  

<b>Convergence Angle</b>	0	29	43.2889355
<b>Scale Factor</b>	1.000052248		
<b>Elevation Adjust. Factor</b>	0.9999912550		
<b>Combined Adjust. Factor</b>	1.0000435026		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 1.06 KM (0.66 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.888 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480007	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110646
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	47,591.8809	0.0020	
<b>Easting (M)</b>	477,360.7028	0.0020	
<b>Elevation (M)*</b>	60.999		
<b>Northing (SFT)</b>	156,141.0293		
<b>Easting (SFT)</b>	1,566,140.9058		
<b>Elevation (SFT)*</b>	200.127		

  

<b>Convergence Angle</b>	0	29	30.0218330
<b>Scale Factor</b>	1.000038767		
<b>Elevation Adjust. Factor</b>	0.9999904274		
<b>Combined Adjust. Factor</b>	1.0000291940		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	45	33.5366028
<b>Longitude</b>	91	9	18.1994256
<b>Ellipsoid Height:</b>	34.342		
<b>Grid Northing (Meters)</b>	47,591.8988		
<b>Grid Easting (Meters)</b>	477,360.6707		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 11.00 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ALMYPORT</p> <p><b>Ref Mon # 2</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 3</b>    H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM AHTD GPS MON 480007A and 30DWB 1970 during job 110615 by crew s5102 in February 2016.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480007A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385, 110646, 110616
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 47,202.6312		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 477,661.4399		<b>Latitude</b> 34 45 20.8214892
<b>Elevation (M)*</b> 60.237		<b>Longitude</b> 91 9 6.5056932
<b>Northing (SFT)</b> 154,863.9659		<b>Ellipsoid Height (M):</b> 33.578
<b>Easting (SFT)</b> 1,567,127.5741		<b>Geoid Height (M):</b> -26.669
<b>Elevation (SFT)*</b> 197.628		

  

<b>Convergence Angle</b> 0 29 36.8256746	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.53 KM (4.06 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.90 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE, 8.90 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.
<b>Scale Factor</b> 1.000039648	
<b>Elevation Adjust. Factor</b> 0.9999905469	
<b>Combined Adjust. Factor</b> 1.0000301946	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT T 170
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480008	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385,110646
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	51,066.7887	
<b>Easting (M)</b>	474,434.6135	
<b>Elevation (M)*</b>	57.499	
<b>Northing (SFT)</b>	167,541.6226	
<b>Easting (SFT)</b>	1,556,540.8945	
<b>Elevation (SFT)*</b>	188.645	

  

<b>Convergence Angle</b>	0	28	23.7323755
<b>Scale Factor</b>	1.000031066		
<b>Elevation Adjust. Factor</b>	0.9999909766		
<b>Combined Adjust. Factor</b>	1.0000220423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	183	19.90	65.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMYPOR	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480008A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385, 110646, 110616
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	50,633.7965 0.0020
<b>Easting (M)</b>	474,560.2442 0.0020
<b>Elevation (M)*</b>	58.499
<b>Northing (SFT)</b>	166,121.0474
<b>Easting (SFT)</b>	1,556,953.0678
<b>Elevation (SFT)*</b>	191.925

  

<b>Convergence Angle</b>	0 28 26.5258090
<b>Scale Factor</b>	1.000032005
<b>Elevation Adjust. Factor</b>	0.9999908197
<b>Combined Adjust. Factor</b>	1.0000228244

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34 47 13.0087860		
<b>Longitude</b>	91 11 7.3181256		
<b>Ellipsoid Height:</b>	31.816		
<b>Grid Northing (Meters)</b>	50,633.8173		
<b>Grid Easting (Meters)</b>	474,560.2098		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS WEST-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 450.806 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 ALMYPORT</p> <p>Ref Mon # 2 BRINKLEYPORT</p> <p>Ref Mon # 3 H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480009	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	55,688.9598	
<b>Easting (M)</b>	474,111.5462	
<b>Elevation (M)*</b>	58.271	
<b>Northing (SFT)</b>	182,706.1956	
<b>Easting (SFT)</b>	1,555,480.9645	
<b>Elevation (SFT)*</b>	191.177	

  

<b>Convergence Angle</b>	0	28	17.2085382
<b>Scale Factor</b>	1.000021346		
<b>Elevation Adjust. Factor</b>	0.9999908555		
<b>Combined Adjust. Factor</b>	1.0000122013		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 4.64 KM (2.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CONCRETE HEADWALL	349	23.10	75.8
<b>MK # 2</b>	POWER POLE	154	32.40	106.3
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="ALMYPORT"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="BRINKLEYPORT"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> ELEVATION BY 3 WIRE FROM NGS POINT T 170 </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480009A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	55,159.8787	
<b>Easting (M)</b>	474,105.3838	
<b>Elevation (M)*</b>	56.574	
<b>Northing (SFT)</b>	180,970.3687	
<b>Easting (SFT)</b>	1,555,460.7467	
<b>Elevation (SFT)*</b>	185.610	

  

<b>Convergence Angle</b>	0	28	16.9677408
<b>Scale Factor</b>	1.000022431		
<b>Elevation Adjust. Factor</b>	0.9999911218		
<b>Combined Adjust. Factor</b>	1.0000135526		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.15 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS NORTH OF THE CENTER OF SKINNER ROAD, 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	165	15.25	50.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="ALMYPORT"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="BRINKLEYPORT"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480010	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	59,525.2505	
<b>Easting (M)</b>	472,769.6383	
<b>Elevation (M)*</b>	57.114	
<b>Northing (SFT)</b>	195,292.4260	
<b>Easting (SFT)</b>	1,551,078.3883	
<b>Elevation (SFT)*</b>	187.382	

  

<b>Convergence Angle</b>	0	27	47.1893039
<b>Scale Factor</b>	1.000013658		
<b>Elevation Adjust. Factor</b>	0.9999910370		
<b>Combined Adjust. Factor</b>	1.0000046949		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CONCRETE HEADWALL	49	11.15	36.6
MK # 2	GUY POLE	99	25.65	84.2
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>H 349</td> </tr> </table>	Ref Mon # 1	ALMYPORT	Ref Mon # 2	BRINKLEYPORT	Ref Mon # 3	H 349	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT T 170</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 1	ALMYPORT								
Ref Mon # 2	BRINKLEYPORT								
Ref Mon # 3	H 349								
Comments									
ELEVATION BY 3 WIRE FROM NGS POINT T 170									

  

Location Description	
THE STATION IS LOCATED ON THE SOUTH SIDE OF BRINKLEY AT THE JUNCTION OF U.S. HIGHWAY 70 AND U.S. HIGHWAY 49. THE STATION IS 37.68 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 70, 25.76 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.	

  

<b>AZ Mark Station</b>	480010A
<b>Geodetic Azimuth</b>	114 43 55.37939
<b>Grid Azimuth</b>	114 16 08.09760

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480010A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	59,317.4748		
<b>Easting (M)</b>	473,230.4769		
<b>Elevation (M)*</b>	66.468		
<b>Northing (SFT)</b>	194,610.7486		
<b>Easting (SFT)</b>	1,552,590.3230		
<b>Elevation (SFT)*</b>	218.070		

  

<b>Convergence Angle</b>	0	27	57.7081669
<b>Scale Factor</b>	1.000014072		
<b>Elevation Adjust. Factor</b>	0.9999895691		
<b>Combined Adjust. Factor</b>	1.0000036410		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 0.55 KM (0.34 MI) TO THE SOUTHEAST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF A HEADWALL, 8.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49, 2.50 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE AND 2.48 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480011	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110389,110664
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	641,248.7894 0.0020
<b>Easting (M)</b>	467,403.8587 0.0020
<b>Elevation (M)*</b>	54.321 0.0000
<b>Northing (SFT)</b>	2,103,830.4032
<b>Easting (SFT)</b>	1,533,474.1598
<b>Elevation (SFT)*</b>	178.217

  

<b>Convergence Angle</b>	0 24 44.8131617
<b>Scale Factor</b>	1.000017066
<b>Elevation Adjust. Factor</b>	0.9999914754
<b>Combined Adjust. Factor</b>	1.0000085413

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	50	22.2757368
<b>Longitude</b>	91	15	47.0839680
<b>Ellipsoid Height:</b>	27.544		
<b>Grid Northing (Meters)</b>	641,248.8045		
<b>Grid Easting (Meters)</b>	467,403.8238		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 8.80 METERS WEST OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&amp;G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> H MSB5	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. *****Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.*****

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480011A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110389,110664
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	641,250.9655    0.0020
<b>Easting (M)</b>	466,969.7753    0.0020
<b>Elevation (M)*</b>	52.847    0.0034
<b>Northing (SFT)</b>	2,103,837.5426
<b>Easting (SFT)</b>	1,532,050.0045
<b>Elevation (SFT)*</b>	173.381

  

<b>Convergence Angle</b>	0    24    35.2515784
<b>Scale Factor</b>	1.000017078
<b>Elevation Adjust. Factor</b>	0.9999917067
<b>Combined Adjust. Factor</b>	1.0000087846

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34    50    22.4469348		
<b>Longitude</b>	91    16    4.1676672		
<b>Ellipsoid Height:</b>	26.032		
<b>Grid Northing (Meters)</b>	641,250.9656		
<b>Grid Easting (Meters)</b>	466,969.7403		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 2.20 KM (1.37 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&amp;G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> MSB5	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. *****Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.*****

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480012	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	611,755.2039	
<b>Easting (M)</b>	479,610.5710	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,007,066.8648	
<b>Easting (SFT)</b>	1,573,522.3484	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	8.1917066
<b>Scale Factor</b>	0.999962511		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 5.198 KM (3.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.844 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT AZ MK"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3    <input type="text" value="540006"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480012A	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 611,929.3559		<b>Latitude</b> 34 34 27.8747796
<b>Easting (M)</b> 479,092.2250		<b>Longitude</b> 91 8 16.7824932
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 27.091
		<b>Geoid Height (M):</b> -26.683

  

<b>Northing (SFT)</b> 2,007,638.2285		<b>Location Description</b>
<b>Easting (SFT)</b> 1,571,821.7415		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 4.619 KM (2.87 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146, 4.05 METERS SOUTH OF A WEBB WIRE FENCE LINE AND 3.45 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.844 METERS.</p>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 28 56.8419378	
<b>Scale Factor</b> 0.999962775	
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	90	30.30	99.4	480012
MK # 2					109 03 13
MK # 3					108 34 16

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT AZ MK	
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 540006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480013	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,172.9299	
<b>Easting (M)</b>	481,835.2220	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,995,314.0208	
<b>Easting (SFT)</b>	1,580,821.0575	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	56.3559619
<b>Scale Factor</b>	0.999957355		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 10.187 KM (6.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 717.408 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	130	34.30	112.5	480013A
MK # 2					91 59 55
MK # 3					91 29 59

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT AZ MK	
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 540006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480013A	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,154.1549	
<b>Easting (M)</b>	482,552.3510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,995,252.4232	
<b>Easting (SFT)</b>	1,583,173.8382	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	30	12.0931541
<b>Scale Factor</b>	0.999957320		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	232	11.05	36.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	480013
<b>Geodetic Azimuth</b>	272 00 11
<b>Grid Azimuth</b>	271 29 59

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMYPORT AZ MK	
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> 540006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480014	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
--------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,258.7009	
<b>Easting (M)</b>	485,768.8060	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,998,876.2545	
<b>Easting (SFT)</b>	1,593,726.4910	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	22.9145075
<b>Scale Factor</b>	0.999958826		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 14.79 KM (9.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRIGATED METAL PIPE	275	7.30	24.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ALMYPORT AZ MK"/>	
Ref Mon # 2 <input type="text" value="BRINKLEYPOR"/>	
Ref Mon # 3 <input type="text" value="540006"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480014A	<b>Date Monumented</b> 12/15/2000	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 146	<b>Job Number:</b> 110391
---------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,012.9119	
<b>Easting (M)</b>	486,273.4040	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,998,069.8618	
<b>Easting (SFT)</b>	1,595,381.9930	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	33.9419691
<b>Scale Factor</b>	0.999958473		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 15.337 KM (9.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	101	10.60	34.8
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT AZ MK"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3    <input type="text" value="540006"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480015	<b>Date Monumented</b> 1/8/2003	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> I 40	<b>Job Number:</b> 110131,110478
--------------------------	------------------------------------	------------------------------	-------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	64,176.2910	
<b>Easting (M)</b>	473,986.4410	
<b>Elevation (M)*</b>	69.938	
<b>Northing (SFT)</b>	210,551.7147	
<b>Easting (SFT)</b>	1,555,070.5152	
<b>Elevation (SFT)*</b>	229.456	

  

<b>Convergence Angle</b>	0	28	15.9417379
<b>Scale Factor</b>	1.000004865		
<b>Elevation Adjust. Factor</b>	0.9999890245		
<b>Combined Adjust. Factor</b>	0.9999938895		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF WINGWALL ON WEST LANE BRIDGE	25	8.30	27.2
MK # 2	NE CORNER OF WINGWALL ON EAST LANE BRIDGE	160	6.59	21.6
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 MEM2 CORS	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 54 32.6011068
<b>Longitude</b>	91 11 25.5056208
<b>Ellipsoid Height (M):</b>	43.129
<b>Geoid Height (M):</b>	-26.800

Location Description
<p>TO REACH THE STATION FROM I-40 EXIT 216 IN BRINKLEY, GO EAST ON I-40 FOR 0.70 MILES TO THE EAST END OF AN OVERPASS OVER THE ST. LOUIS SOUTHWESTERN RAILWAY AND THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN AT THE TOP OF THE BANK BETWEEN THE TWO BRIDGES OVER THE RAILROAD TRACK. THE STATION MARK IS A 64mm CAP STAMPED "480015 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480015A	<b>Date Monumented</b> 1/8/2003	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> I 40	<b>Job Number:</b> 110131,110478
---------------------------	------------------------------------	------------------------------	-------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	64,215.4490				
<b>Easting (M)</b>	474,526.2520				
<b>Elevation (M)*</b>	58.828				
<b>Northing (SFT)</b>	210,680.1856				
<b>Easting (SFT)</b>	1,556,841.5451				
<b>Elevation (SFT)*</b>	193.004				

  

<b>Convergence Angle</b>	0	28	28.3223348
<b>Scale Factor</b>	1.000004802		
<b>Elevation Adjust. Factor</b>	0.9999907681		
<b>Combined Adjust. Factor</b>	0.9999955700		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD LROC	ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 MEM2 CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480016-1	<b>Date Monumented</b> 1/8/2003	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> NA
----------------------------	------------------------------------	------------------------------	-------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-70 AND HWY-17 SOUTH JUST SOUTHWEST OF BRINKLEY, GO WEST ON HWY-70 FOR 0.45 MILES TO THE STATION ON THE LEFT JUST WEST OF THE DRIVEWAY INTO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MONROE COUNTY HEADQUARTERS. 18.25 METERS SOUTH OF THE CENTER OF HWY-70, 8.70 METERS WEST OF THE CENTER OF THE DRIVEWAY INTO THE MONROE COUNTY HEADQUARTERS AND 2.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "480016 2003" SET ON TOP OF A CONCRETE POST 0.85 FEET IN DIAMETER AND 3.50 FEET IN THE GROUND. THE STATION DISK IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER	180	2.70	8.9
MK # 2	POWER POLE	270	34.50	113.2
MK # 3	FLAG POLE	205	6.30	20.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480017_1	<b>Date Monumented</b> 4/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Monroe	<b>Route</b> cNeal La	<b>Job Number:</b> 110544
----------------------------	-------------------------------------	------------------------------	-------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	648,807.4797	0.0097	
<b>Easting (M)</b>	480,334.4888	0.0069	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,128,629.2063		
<b>Easting (SFT)</b>	1,575,897.4020		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	29	31.0737433
<b>Scale Factor</b>	1.000034247		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	20	11.58	38.0
MK # 2	36" pin oak	342	22.25	73.0
MK # 3	PP with transformer	315	27.13	89.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	34 54 24.2329387
<b>Longitude</b>	91 7 15.6204866
<b>Ellipsoid Height (M):</b>	31.712 0.0151
<b>Geoid Height (M):</b>	-26.759 0.3141

Location Description
<p>Starting at the junction of US 70 and state highway78 in Wheatly go west on US-70 .8 miles then turn left on McNeal lane and go south .1 miles to the station on the left. The Station is a standard alum. cap stamped(480017 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot west of a witness post and 35 foot east of the CL of McNeal lane.</p> <p>Lat.34.5424 Lon.091.0716</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480017A_1	<b>Date Monumented</b> 4/26/2011	<b>Monumented By</b> AHTD	<b>County</b> Monroe	<b>Route</b> cNeal La	<b>Job Number:</b> 110544
-----------------------------	-------------------------------------	------------------------------	-------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	648,494.7937	0.0094	
<b>Easting (M)</b>	480,324.9422	0.0069	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,127,603.3357		
<b>Easting (SFT)</b>	1,575,866.0812		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	29	30.8041052
<b>Scale Factor</b>	1.000033499		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	combo. pole	197	5.49	18.0
MK # 2	South East corner of a 1 story brick house	303	13.70	44.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	34 54 14.0895571
<b>Longitude</b>	91 7 16.1022492
<b>Ellipsoid Height (M):</b>	31.805 0.0542
<b>Geoid Height (M):</b>	-26.756 0.3141

Location Description
Starting at the junction of US-70 & AR 78 in Wheatly go west on 70 .8 miles then turn left on McNeal lane and go .3 miles to the station on the right. The station is a standard alum. cap stamped (480017A 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot east of a witness post, 22 foot west of the CL of McNeal lane, and 28 foot north of CL of phillips lane. Lat.34.5414 Lon.091.0716

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480018	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> Clarendon River Bridge Scan
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	622,724.1746	0.0020	
<b>Easting (M)</b>	460,276.7387	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,043,054.2295		
<b>Easting (SFT)</b>	1,510,091.2669		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	22	5.1955035
<b>Scale Factor</b>	0.999980451		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	266	157.50	516.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT, ARLR	
Ref Mon # 2    ARWY	
Ref Mon # 3    MSB6	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    40    22.7190972
<b>Longitude</b>	91    20    32.2716552
<b>Ellipsoid Height (M):</b>	28.670    0.0070
<b>Geoid Height (M):</b>	-26.810    0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.1 MILES TO THE MARK ON THE LEFT, NORTH 28 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480018A	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> Clarendon River Bridge Scan
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	623,002.3348	0.0020			
<b>Easting (M)</b>	460,661.8245	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,043,966.8268				
<b>Easting (SFT)</b>	1,511,354.6692				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	22	13.7009942
<b>Scale Factor</b>	0.999980935		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	62	115.50	378.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARBT, ARLR	
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB6	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34 40 31.6652664
<b>Longitude</b>	91 20 17.0748852
<b>Ellipsoid Height (M):</b>	30.720 0.0070
<b>Geoid Height (M):</b>	-26.811 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 2.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480019	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> Clarendon River Bridge Scan
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	624,512.7369	0.0020	
<b>Easting (M)</b>	463,170.8054	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,048,922.2043		
<b>Easting (SFT)</b>	1,519,586.2174		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	23	9.0850370
<b>Scale Factor</b>	0.999983591		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHEAST OF EAST END OF CONCRETE	208	26.80	87.9
<b>MK # 2</b>	CLARENDON RIVER BRIDGE	280	38.80	127.3
<b>MK # 3</b>	COMBINATION POLE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT, ARLR	
<b>Ref Mon # 2</b> ARWY	
<b>Ref Mon # 3</b> MSB6	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    41    20.1424920
<b>Longitude</b>	91    18    38.1201516
<b>Ellipsoid Height (M):</b>	25.715    0.0070
<b>Geoid Height (M):</b>	-26.813    0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, IN CLARENDON, GO SOUTH ON HIGHWAY 79 0.05 MILES TO THE MARK ON THE RIGHT, NORTH 10.6 FEET OF THE CENTERLINE OF EWAN STREET AND NORTH 38.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480019A	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONROE	<b>Route</b> 79	<b>Job Number:</b> Clarendon River Bridge Scan
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	624,552.7680 0.0020
<b>Easting (M)</b>	463,723.0340 0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	2,049,053.5397	
<b>Easting (SFT)</b>	1,521,397.9874	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	23	21.2337930
<b>Scale Factor</b>	0.999983656		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, ALSO KNOWN AS NORTH 9th STREET, IN CLARENDON, GO NORTH ON HIGHWAY 79 0.25 MILES TO THE MARK ON THE LEFT, NORTHEAST 24.4 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				480019
MK # 2				
MK # 3				

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT, ARLR</p> <p>Ref Mon # 2    ARWY</p> <p>Ref Mon # 3    MSB6</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480020	<b>Date Monumented</b>	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
--------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	641,830.4547 0.0020
<b>Easting (M)</b>	469,690.5614 0.0030
<b>Elevation (M)*</b>	57.451 0.0012
<b>Northing (SFT)</b>	2,105,738.7501
<b>Easting (SFT)</b>	1,540,976.4502
<b>Elevation (SFT)*</b>	188.488

  

<b>Convergence Angle</b>	0 25 35.2795799
<b>Scale Factor</b>	1.000018319
<b>Elevation Adjust. Factor</b>	0.9999909841
<b>Combined Adjust. Factor</b>	1.0000093029

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO NE 0.34 MILES.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North of EP HWY 70		1.31	4.3
<b>MK # 2</b>	EAST OF CL OF DRIVEWAY		45.72	150.0
<b>MK # 3</b>	SOUTH OF WITNESS POST		2.13	7.0

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    ARWY Ref Mon # 3    MSB5	<b>Comments</b>  Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480020A	<b>Date Monumented</b> 	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
---------------------------	----------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	642,159.9091	0.0020			
<b>Easting (M)</b>	470,076.7736	0.0020			
<b>Elevation (M)*</b>	57.094	0.0010			
<b>Northing (SFT)</b>	2,106,819.6351				
<b>Easting (SFT)</b>	1,542,243.5481				
<b>Elevation (SFT)*</b>	187.315				

  

<b>Convergence Angle</b>	0	25	43.8418198
<b>Scale Factor</b>	1.000019047		
<b>Elevation Adjust. Factor</b>	0.9999910402		
<b>Combined Adjust. Factor</b>	1.0000100871		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH OF EP HWY 70		0.61	2.0
<b>MK # 2</b>	WEST OF DRIVE TO HOUSE #8330		10.67	35.0
<b>MK # 3</b>	SOUTH OF WITNESS POST		0.73	2.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480021	<b>Date Monumented</b>	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
--------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	641,138.6703 0.0020
<b>Easting (M)</b>	463,780.2894 0.0020
<b>Elevation (M)*</b>	54.956 0.0047
<b>Northing (SFT)</b>	2,103,469.1208
<b>Easting (SFT)</b>	1,521,585.8328
<b>Elevation (SFT)*</b>	180.301

  

<b>Convergence Angle</b>	0 23 24.9769926
<b>Scale Factor</b>	1.000016879
<b>Elevation Adjust. Factor</b>	0.9999913757
<b>Combined Adjust. Factor</b>	1.0000082546

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 3.41 MILES.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH OF EP HWY 70		6.80	22.3	
MK # 2	EAST OF FIELD ROAD		7.01	23.0	
MK # 3	SOUTH OF WITNESS POST		2.07	6.8	

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Ref Mon # 1	ARLR	
Ref Mon # 2	ARWY	
Ref Mon # 3	MSB5	

  

<b>AZ Mark Station</b>	480021A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480021A	<b>Date Monumented</b> 	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
---------------------------	----------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	641,117.5089	0.0020			
<b>Easting (M)</b>	463,367.8311	0.0020			
<b>Elevation (M)*</b>	54.690	0.0047			
<b>Northing (SFT)</b>	2,103,399.6938				
<b>Easting (SFT)</b>	1,520,232.6259				
<b>Elevation (SFT)*</b>	179.427				

  

<b>Convergence Angle</b>	0	23	15.8883233
<b>Scale Factor</b>	1.000016838		
<b>Elevation Adjust. Factor</b>	0.9999914175		
<b>Combined Adjust. Factor</b>	1.0000082554		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH OF EP HWY 70		3.57	11.7
<b>MK # 2</b>	SOUTH OF WITNESS POST		1.92	6.3
<b>MK # 3</b>	WEST OF BRIDGE		182.88	600.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480022	<b>Date Monumented</b>	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
--------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	640,867.3576	0.0030			
<b>Easting (M)</b>	459,200.5315	0.0030			
<b>Elevation (M)*</b>	55.164	0.0060			
<b>Northing (SFT)</b>	2,102,578.9891				
<b>Easting (SFT)</b>	1,506,560.4104				
<b>Elevation (SFT)*</b>	180.985				

  

<b>Convergence Angle</b>	0	21	44.0573134
<b>Scale Factor</b>	1.000016346		
<b>Elevation Adjust. Factor</b>	0.9999913430		
<b>Combined Adjust. Factor</b>	1.0000076889		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North of hwy 70 white line		6.71	22.0
<b>MK # 2</b>	East of CL of field road		4.27	14.0
<b>MK # 3</b>	Swof witness post		1.77	5.8

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> MSB5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.</td> </tr> </table>	Comments	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Comments			
Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 6.30 MILES.	

  

<b>AZ Mark Station</b>	480022A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480022A	<b>Date Monumented</b>	<b>Monumented By</b> CLS	<b>County</b> MONROE	<b>Route</b> 70	<b>Job Number:</b> 110664
---------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	640,589.9125	0.0020	
<b>Easting (M)</b>	459,293.5972	0.0020	
<b>Elevation (M)*</b>	52.156	0.0003	
<b>Northing (SFT)</b>	2,101,668.7379		
<b>Easting (SFT)</b>	1,506,865.7435		
<b>Elevation (SFT)*</b>	171.115		

  

<b>Convergence Angle</b>	0	21	46.0685933
<b>Scale Factor</b>	1.000015735		
<b>Elevation Adjust. Factor</b>	0.9999918151		
<b>Combined Adjust. Factor</b>	1.0000075500		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 6.30 MILES, THEN SW 0.30 MILES ON A BOAT LAUNCH ROAD.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	W OF CL OF GR ROAD		3.66	12.0	
MK # 2	SOUTH OF HWY ON BOAT LAUNCH ROAD		274.32	900.0	
MK # 3	NORTH OF SHARP CURVE IN GR ROAD		39.62	130.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARLR Ref Mon # 2    ARWY Ref Mon # 3    MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480023	<b>Date Monumented</b> 4/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> MONROE	<b>Route</b> 39	<b>Job Number:</b> 110124
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	624,016.1252	0.0030			
<b>Easting (M)</b>	482,094.3331	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,047,292.9041				
<b>Easting (SFT)</b>	1,581,671.1578				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	30	5.0867753
<b>Scale Factor</b>	0.999982441		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FE CORNER	0	4.42	14.5
MK # 2	WATER WELL	109	20.94	68.7
MK # 3	CP W/3 GUYS & TRANSFORMER	85	21.03	69.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARJB <b>Ref Mon # 3</b> MSGN	GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12B

**Latitude**    34    40    59.2719888

**Longitude**    91    6    14.8493628

**Ellipsoid Height (M):**    28.777    0.0120

**Geoid Height (M):**    -26.746    0.0120

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 39.9'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 480023A	<b>Date Monumented</b> 4/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> MONROE	<b>Route</b> 39	<b>Job Number:</b> 110124
---------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	624,014.9962	0.0040			
<b>Easting (M)</b>	481,676.8742	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,047,289.2000				
<b>Easting (SFT)</b>	1,580,301.5448				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	29	55.9079559
<b>Scale Factor</b>	0.999982445		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	301	27.13	89.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR Ref Mon # 2    ARJB Ref Mon # 3    MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB &amp; ARLR.</td> </tr> </table>	Comments	GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.
Comments			
GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO MEACHAM ROAD AND TURN LEFT (WEST) AND GO 0.25 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE ROAD 18.0' AND NORTH 34.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	480023A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490001	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,890.9919	
<b>Easting (M)</b>	265,870.3270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,997,669.8626	
<b>Easting (SFT)</b>	872,276.2312	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	4.3651618
<b>Scale Factor</b>	0.999957518		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	297	5.40	17.7
MK # 2	NORTHWEST CORNER METAL BUILDING	183	10.55	34.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    MENAPORT AZ MK	
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    32    29.0071104
<b>Longitude</b>	93    27    40.7006532
<b>Ellipsoid Height (M):</b>	164.406
<b>Geoid Height (M):</b>	-28.033

Location Description
<p>TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 3.64 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490001 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490001A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,880.1379	
<b>Easting (M)</b>	266,207.4320	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,997,634.2524	
<b>Easting (SFT)</b>	873,382.2165	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	56.9627651
<b>Scale Factor</b>	0.999957509		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	241	6.60	21.7
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	490001
<b>Geodetic Azimuth</b>	271 01 42
<b>Grid Azimuth</b>	271 50 39

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MENAPORT AZ MK	
<b>Ref Mon # 2</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 3</b> DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490002	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,096.7129	
<b>Easting (M)</b>	260,596.2560	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,995,063.9656	
<b>Easting (SFT)</b>	854,972.8832	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	50	59.8643258
<b>Scale Factor</b>	0.999956316		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	48	13.90	45.6
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	490002A
<b>Geodetic Azimuth</b>	234 38 40
<b>Grid Azimuth</b>	235 29 40

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490002A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,843.6729	
<b>Easting (M)</b>	260,228.1580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,994,233.7835	
<b>Easting (SFT)</b>	853,765.2150	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	51	7.8601590
<b>Scale Factor</b>	0.999955963		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CONCRETE PIPE	304	7.10	23.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ MK <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> DE QUEEN CORS	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    34    31    52.3528104

**Longitude**    93    31    21.3493080

**Ellipsoid Height (M):**    155.418   

**Geoid Height (M):**    -28.123

  

**Location Description**

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490002A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	490002
<b>Geodetic Azimuth</b>	54 38 32
<b>Grid Azimuth</b>	55 29 40

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490003	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,619.6859	
<b>Easting (M)</b>	254,741.1370	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,996,779.7528	
<b>Easting (SFT)</b>	835,763.2136	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	53	8.5395538
<b>Scale Factor</b>	0.999956913		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    MENAPORT AZ MK	
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    32    14.8338528
<b>Longitude</b>	93    34    56.9673228
<b>Ellipsoid Height (M):</b>	191.173
<b>Geoid Height (M):</b>	-28.262

Location Description
<p>TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 10.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.20 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	490003A
<b>Geodetic Azimuth</b>	115 35 54
<b>Grid Azimuth</b>	116 29 03

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490003A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,368.3809	
<b>Easting (M)</b>	255,245.5290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,995,955.2630	
<b>Easting (SFT)</b>	837,418.0397	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	52	57.3845620
<b>Scale Factor</b>	0.999956578		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	287	19.80	65.0
<b>MK # 2</b>	CORNER POST	193	2.15	7.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ MK	
<b>Ref Mon # 2</b> AP 1970 STA A3 HOT	
<b>Ref Mon # 3</b> DE QUEEN CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 6.9316440
<b>Longitude</b>	93 34 37.0366860
<b>Ellipsoid Height (M):</b>	185.122
<b>Geoid Height (M):</b>	-28.242

Location Description
<p>TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 10.59 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.65 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490003A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490004	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,972.7190	
<b>Easting (M)</b>	250,187.0270	
<b>Elevation (M)*</b>	202.086	
<b>Northing (SFT)</b>	2,004,499.6623	
<b>Easting (SFT)</b>	820,821.9377	
<b>Elevation (SFT)*</b>	663.010	

  

<b>Convergence Angle</b>	0	54	49.3125613
<b>Scale Factor</b>	0.999960124		
<b>Elevation Adjust. Factor</b>	0.9999682871		
<b>Combined Adjust. Factor</b>	0.9999284124		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER RED BRICK BUILDIN	168	10.05	33.0
MK # 2	METAL LIGHT POLE	211	10.20	33.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    MENAPORT AZ MK	
Ref Mon # 2    AP 1970 STA A3 HOT	
Ref Mon # 3    DE QUEEN CORS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    33    28.8680292
<b>Longitude</b>	93    37    57.0185724
<b>Ellipsoid Height (M):</b>	173.639
<b>Geoid Height (M):</b>	-28.447

Location Description
<p>THIS STATION IS LOCATED AT THE MONTGOMERY COUNTY COURT HOUSE IN MOUNT IDA. THE STATION IS 15.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, 2.50 METERS SOUTH OF THE BACK OF A CONCRETE CURB, 2.40 METERS WEST OF THE BACK OF A CONCRETE CURB, 1.80 METERS EAST OF THE BACK OF A CONCRETE CURB, AND THIS STATION HAS NO WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&amp;GS BM E 24 PID EJ1473.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490004A	<b>Date Monumented</b> 4/30/2002	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080237
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	611,284.3809	
<b>Easting (M)</b>	249,795.3890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,005,522.1730	
<b>Easting (SFT)</b>	819,537.0387	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	54	58.0193552
<b>Scale Factor</b>	0.999960563		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	129	9.60	31.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	144	4.15	13.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	212	1.65	5.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> MENAPORT AZ MK <b>Ref Mon # 2</b> AP 1970 STA A3 HOT <b>Ref Mon # 3</b> DE QUEEN CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

Location Description			
TO REACH THIS STATION FROM THE MONTGOMERY COUNTY COURT HOUSE, GO WEST ON U.S. HIGHWAY 270 FOR 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>AZ Mark Station</b>	490004
<b>Geodetic Azimuth</b>	127 35 47
<b>Grid Azimuth</b>	128 30 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490005	<b>Date Monumented</b> 2/6/2007	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 70	<b>Job Number:</b> 080318
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	586,892.0259	
<b>Easting (M)</b>	262,263.0070	
<b>Elevation (M)*</b>	182.898	
<b>Northing (SFT)</b>	1,925,494.9216	
<b>Easting (SFT)</b>	860,441.2155	
<b>Elevation (SFT)*</b>	600.059	

  

<b>Convergence Angle</b>	0	50	16.4787889
<b>Scale Factor</b>	0.999932889		
<b>Elevation Adjust. Factor</b>	0.9999712981		
<b>Combined Adjust. Factor</b>	0.9999041890		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RIGHT OF WAY MONUMENT	346	1.65	5.4
<b>MK # 2</b>	10" FORKED OAK TREE	61	6.40	21.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARLR"/> <b>Ref Mon # 2</b> <input type="text" value="ARHP"/> <b>Ref Mon # 3</b> <input type="text" value="DQUA"/>	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490006	<b>Date Monumented</b> 2/6/2007	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 70	<b>Job Number:</b> 080318
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	590,089.3758	
<b>Easting (M)</b>	269,928.3940	
<b>Elevation (M)*</b>	184.913	
<b>Northing (SFT)</b>	1,935,984.8938	
<b>Easting (SFT)</b>	885,590.0726	
<b>Elevation (SFT)*</b>	606.667	

  

<b>Convergence Angle</b>	0	47	29.5939651
<b>Scale Factor</b>	0.999935815		
<b>Elevation Adjust. Factor</b>	0.9999709820		
<b>Combined Adjust. Factor</b>	0.9999067989		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE PEDESTAL	270	19.18	62.9
<b>MK # 2</b>	WOOD FENCE POST		4.88	16.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> DQUA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490006A	<b>Date Monumented</b> 2/6/2007	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 70	<b>Job Number:</b> 080318
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	590,073.4759	
<b>Easting (M)</b>	270,424.1710	
<b>Elevation (M)*</b>	181.820	
<b>Northing (SFT)</b>	1,935,932.7288	
<b>Easting (SFT)</b>	887,216.6344	
<b>Elevation (SFT)*</b>	596.522	

  

<b>Convergence Angle</b>	0	47	18.7291190
<b>Scale Factor</b>	0.999935806		
<b>Elevation Adjust. Factor</b>	0.9999714673		
<b>Combined Adjust. Factor</b>	0.9999072751		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOOD GATE POST	99	0.33	1.1
<b>MK # 2</b>	SOUTHEAST CORNER BRIDGE	281	26.09	85.6
<b>MK # 3</b>	EAST END GUARD RAIL	330	9.85	32.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> DQUA	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.2 MILES TO THE STATION MARK ON THE RIGHT, WEST 18.0 FEET OF AN ASPHALT DRIVEWAY, SOUTH 55.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490006A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490007	<b>Date Monumented</b> 5/1/2007	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 70	<b>Job Number:</b> 080318
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	589,352.7539	
<b>Easting (M)</b>	266,804.1810	
<b>Elevation (M)*</b>	195.901	
<b>Northing (SFT)</b>	1,933,568.1601	
<b>Easting (SFT)</b>	875,340.0505	
<b>Elevation (SFT)*</b>	642.720	

  

<b>Convergence Angle</b>	0	48	37.8015756
<b>Scale Factor</b>	0.999935100		
<b>Elevation Adjust. Factor</b>	0.9999692576		
<b>Combined Adjust. Factor</b>	0.9999043596		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	60	23.41	76.8
<b>MK # 2</b>	POWER POLE	241	3.05	10.0
<b>MK # 3</b>	TELEPHONE BOX	276	3.60	11.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 490006, 490006A	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
<b>Ref Mon # 2</b> 550008	
<b>Ref Mon # 3</b> 490005	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 21 55.3982436
<b>Longitude</b>	93 26 53.2394628
<b>Ellipsoid Height (M):</b>	168.340
<b>Geoid Height (M):</b>	-27.554

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO WEST ON HIGHWAY 70 FOR 239 FEET TO THE STATION MARK ON THE RIGHT, WEST OF A GRAVEL DRIVEWAY 61.6 FEET, NORTH 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490007 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490007A	<b>Date Monumented</b> 5/1/2007	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 70	<b>Job Number:</b> 080318
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	589,079.2388	
<b>Easting (M)</b>	266,235.6810	
<b>Elevation (M)*</b>	196.437	
<b>Northing (SFT)</b>	1,932,670.8026	
<b>Easting (SFT)</b>	873,474.8967	
<b>Elevation (SFT)*</b>	644.476	

  

<b>Convergence Angle</b>	0	48	50.1684128
<b>Scale Factor</b>	0.999934846		
<b>Elevation Adjust. Factor</b>	0.9999691736		
<b>Combined Adjust. Factor</b>	0.9999040216		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO WEST ON HIGHWAY 70 FOR 0.40 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 37.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490007A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> 490006, 490006A <b>Ref Mon # 2</b> 550008 <b>Ref Mon # 3</b> 490005	<b>Comments</b>  3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490008	<b>Date Monumented</b> 3/11/2008	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080310
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	625,563.3389				
<b>Easting (M)</b>	233,130.7760				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,052,369.0544				
<b>Easting (SFT)</b>	764,863.2209				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	1	9.4253573
<b>Scale Factor</b>	0.999983194		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST CORNER BOX CULVERT	104	38.41	126.0
<b>MK # 2</b>	14" OAKTREE	005	23.17	76.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> Q 299	
<b>Ref Mon # 3</b> MENAPORT AZ	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    41    12.9700572
<b>Longitude</b>	93    49    16.1665464
<b>Ellipsoid Height (M):</b>	266.367
<b>Geoid Height (M):</b>	-29.371

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.60 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.6 FEET OF THE CENTER OF THE HIGHWAY AND SOUTH 43.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490008 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490008A	<b>Date Monumented</b> 3/11/2008	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080310
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	625,589.1699	
<b>Easting (M)</b>	232,606.7510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,052,453.8016	
<b>Easting (SFT)</b>	763,143.9822	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	1	20.9562705
<b>Scale Factor</b>	0.999983224		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	15" CONCRETE CULVERT	274	28.04	92.0
<b>MK # 2</b>	18" PINE TREE	245	22.49	73.8
<b>MK # 3</b>	15" OAK TREE	306	14.17	46.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> Q 299 <b>Ref Mon # 3</b> MENAPORT AZ	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 41 13.5052044
<b>Longitude</b>	93 49 36.7688424
<b>Ellipsoid Height (M):</b>	269.504
<b>Geoid Height (M):</b>	-29.384

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.90 MILES TO THE STATION MARK ON THE RIGHT, NORTH 27.5 FEET OF THE CENTER OF THE HIGHWAY, 13.0 FEET EAST OF A FOREST SERVICE ROAD AND SOUTH 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490008A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	490009
<b>Geodetic Azimuth</b>	91 47 58
<b>Grid Azimuth</b>	92 49 19

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490009	<b>Date Monumented</b> 3/11/2008	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080310
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	622,837.5990	
<b>Easting (M)</b>	237,642.6610	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,043,426.3561	
<b>Easting (SFT)</b>	779,665.9636	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	29.1928028
<b>Scale Factor</b>	0.999978543		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	130	20.73	68.0
<b>MK # 2</b>	COMBINATION POLE	324	27.13	89.0
<b>MK # 3</b>	14" PLASTIC PIPE END	228	10.21	33.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> Q 299	
<b>Ref Mon # 3</b> MENAPORT AZ	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 39 47.0966076
<b>Longitude</b>	93 46 17.0809248
<b>Ellipsoid Height (M):</b>	253.164
<b>Geoid Height (M):</b>	-29.182

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 2.8 MILES TO THE STATION MARK ON THE LEFT, SOUTH 33.0 FEET OF THE CENTER OF THE HIGHWAY, 22.0 FEET SOUTHEAST OF THE CENTER OF A DRIVEWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490009A	<b>Date Monumented</b> 3/11/2008	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 270	<b>Job Number:</b> 080310
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	622,603.4639	
<b>Easting (M)</b>	237,867.1200	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,042,658.1978	
<b>Easting (SFT)</b>	780,402.3762	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	24.1704464
<b>Scale Factor</b>	0.999978146		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 2.6 MILES TO THE STATION MARK ON THE LEFT, SOUTH 51.7 FEET OF THE CENTER OF THE HIGHWAY, 21.0 FEET EAST OF THE CENTER OF VINCENT ROAD (GRAVEL) AND WEST 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490009A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOOD FENCE CORNER	303	14.63	48.0
<b>MK # 2</b>	24" CONCRETE CULVERT	314	10.70	35.1
<b>MK # 3</b>	TELEPHONE RISER	32	1.34	4.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    Q 299</p> <p><b>Ref Mon # 3</b>    MENAPORT AZ</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490010	<b>Date Monumented</b> 7/20/2010	<b>Monumented By</b> AHTD	<b>County</b> Montgomery	<b>Route</b> 27	<b>Job Number:</b> 080379
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	617,645.9049				
<b>Easting (M)</b>	258,111.1210				
<b>Elevation (M)*</b>	182.215				
<b>Northing (SFT)</b>	2,026,393.2730				
<b>Easting (SFT)</b>	846,819.5695				
<b>Elevation (SFT)*</b>	597.816				

  

<b>Convergence Angle</b>	0	51	57.5717241
<b>Scale Factor</b>	0.999970454		
<b>Elevation Adjust. Factor</b>	0.9999714054		
<b>Combined Adjust. Factor</b>	0.9999418603		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone box	169	46.63	153.0
<b>MK # 2</b>	18 inch metal culvert	175	51.82	170.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490010A	<b>Date Monumented</b> 7/20/2010	<b>Monumented By</b> AHTD	<b>County</b> Montgomery	<b>Route</b> 27	<b>Job Number:</b> 080379
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	617,296.8670		
<b>Easting (M)</b>	257,931.8030		
<b>Elevation (M)*</b>	187.798		
<b>Northing (SFT)</b>	2,025,248.1378		
<b>Easting (SFT)</b>	846,231.2570		
<b>Elevation (SFT)*</b>	616.135		

  

<b>Convergence Angle</b>	0	52	1.3950377
<b>Scale Factor</b>	0.999969891		
<b>Elevation Adjust. Factor</b>	0.9999705292		
<b>Combined Adjust. Factor</b>	0.9999404211		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	37	47.55	156.0
<b>MK # 2</b>	Power pole	210	43.89	144.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490011	<b>Date Monumented</b> 7/20/2010	<b>Monumented By</b> AHTD	<b>County</b> Montgomery	<b>Route</b> 27	<b>Job Number:</b> 080379
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	621,100.1609				
<b>Easting (M)</b>	259,481.6080				
<b>Elevation (M)*</b>	183.595				
<b>Northing (SFT)</b>	2,037,726.1112				
<b>Easting (SFT)</b>	851,315.9089				
<b>Elevation (SFT)*</b>	602.346				

  

<b>Convergence Angle</b>	0	51	28.6003969
<b>Scale Factor</b>	0.999976178		
<b>Elevation Adjust. Factor</b>	0.9999711887		
<b>Combined Adjust. Factor</b>	0.9999473674		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 10.2 miles to the station on the right just south of the bridge over Lake Ouachita and about 5 feet above the road surface. 30.00 feet east of the center of hwy-27 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "490011 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.10 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Northeast corner of a bridge	352	36.19	118.7
<b>MK # 2</b>	Power pole	115	14.02	46.0
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARHP</p> <p><b>Ref Mon # 3</b>    ARCM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490011A	<b>Date Monumented</b> 7/20/2010	<b>Monumented By</b> AHTD	<b>County</b> Montgomery	<b>Route</b> 27	<b>Job Number:</b> 080379
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	620,655.0339				
<b>Easting (M)</b>	259,316.9180				
<b>Elevation (M)*</b>	188.408				
<b>Northing (SFT)</b>	2,036,265.7237				
<b>Easting (SFT)</b>	850,775.5885				
<b>Elevation (SFT)*</b>	618.135				

  

<b>Convergence Angle</b>	0	51	32.0730900
<b>Scale Factor</b>	0.999975424		
<b>Elevation Adjust. Factor</b>	0.9999704335		
<b>Combined Adjust. Factor</b>	0.9999458583		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	250	30.78	101.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490021	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 88	<b>Job Number:</b> B230
--------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	617,978.7706	0.0036			
<b>Easting (M)</b>	237,112.2087	0.0029			
<b>Elevation (M)*</b>	231.092	0.0030			
<b>Northing (SFT)</b>	2,027,485.3499				
<b>Easting (SFT)</b>	777,925.6380				
<b>Elevation (SFT)*</b>	758.175				

  

<b>Convergence Angle</b>	0	59	38.9984956
<b>Scale Factor</b>	0.999970441		
<b>Elevation Adjust. Factor</b>	0.9999637354		
<b>Combined Adjust. Factor</b>	0.9999341775		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	260	15.10	49.5
<b>MK # 2</b>	36" OAK TREE	11	30.00	98.4
<b>MK # 3</b>	SOUTHWEST CORNER OF WOODEN FENCE	62	25.40	83.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> OKHV	Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	34    37    9.1406244
<b>Longitude</b>	93    46    34.6007676
<b>Ellipsoid Height (M):</b>	201.951    0.0106
<b>Geoid Height (M):</b>	-29.145

  

Location Description
TO REACH FROM THE INTERSECTION OF HWY. 88 AND HWY. 379 IN ODEN. GO EAST ON HWY. 88 FOR 0.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 3 FT. NORTH OF A WITNESS POST, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 88. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "490021 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490021A	<b>Date Monumented</b> 12/14/2015	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 88	<b>Job Number:</b> B230
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	617,879.1366	0.0032	
<b>Easting (M)</b>	237,696.7006	0.0027	
<b>Elevation (M)*</b>	220.795	0.0010	
<b>Northing (SFT)</b>	2,027,158.4673		
<b>Easting (SFT)</b>	779,843.2586		
<b>Elevation (SFT)*</b>	724.391		

  

<b>Convergence Angle</b>	0	59	26.1206590
<b>Scale Factor</b>	0.999970297		
<b>Elevation Adjust. Factor</b>	0.9999653513		
<b>Combined Adjust. Factor</b>	0.9999356493		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN POST OF "H" BRACE	215	2.00	6.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARHP	Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134
Ref Mon # 2: ARLR	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490022	<b>Date Monumented</b> 9/19/2017	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 8	<b>Job Number:</b> 080503
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	593,893.8876 0.0030
<b>Easting (M)</b>	250,723.3714 0.0030
<b>Elevation (M)*</b>	192.353 0.0006
<b>Northing (SFT)</b>	1,948,466.8629
<b>Easting (SFT)</b>	822,581.5943
<b>Elevation (SFT)*</b>	631.077

  

<b>Convergence Angle</b>	0 54 31.5913144
<b>Scale Factor</b>	0.999939226
<b>Elevation Adjust. Factor</b>	0.9999698145
<b>Combined Adjust. Factor</b>	0.9999090423

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOC utility marker	271	25.91	85.0
MK # 2	FOC utility marker	212	32.31	106.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARHP <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARLR	<b>Comments</b>  Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
---	--

  

Location Description	
To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 5.5 miles to the station on the Left. The station is 23.3' NE of the center of Hwy 8. The station mark is a 2" aluminum cap stamped 490022 on top of a 5/8" rebar driven .3' under the surface of the soil.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34 24 14.9346720
<b>Longitude</b>	93 37 25.3560000
<b>Ellipsoid Height (M):</b>	164.303 0.0100
<b>Geoid Height (M):</b>	-28.000

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490022A	<b>Date Monumented</b> 9/19/2017	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 8	<b>Job Number:</b> 080503
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	594,301.9306	0.0030	
<b>Easting (M)</b>	250,496.3887	0.0030	
<b>Elevation (M)*</b>	192.925	0.0008	
<b>Northing (SFT)</b>	1,949,805.5840		
<b>Easting (SFT)</b>	821,836.9019		
<b>Elevation (SFT)*</b>	632.955		

  

<b>Convergence Angle</b>	0	54	36.7071515
<b>Scale Factor</b>	0.999939638		
<b>Elevation Adjust. Factor</b>	0.9999697247		
<b>Combined Adjust. Factor</b>	0.9999093645		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gas meter	232	11.58	38.0
<b>MK # 2</b>	Gas meter	166	23.47	77.0
<b>MK # 3</b>	10"x18" CMP SE end	233	9.54	31.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490023	<b>Date Monumented</b> 9/19/2017	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 8	<b>Job Number:</b> 080503
--------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	598,037.4416 0.0030
<b>Easting (M)</b>	248,441.9625 0.0040
<b>Elevation (M)*</b>	215.983 0.0018
<b>Northing (SFT)</b>	1,962,061.1730
<b>Easting (SFT)</b>	815,096.6720
<b>Elevation (SFT)*</b>	708.605

  

<b>Convergence Angle</b>	0 55 23.0456718
<b>Scale Factor</b>	0.999943595
<b>Elevation Adjust. Factor</b>	0.9999661063
<b>Combined Adjust. Factor</b>	0.9999097033

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>				3rd Order - Digital Levels	
<b>Elevation Datum:</b>				NAVD 88	
<b>Geoid Datum:</b>				Geoid12B	
<b>Latitude</b>		34	26	28.2120720	
<b>Longitude</b>		93	38	57.2895600	
<b>Ellipsoid Height (M):</b>		187.825		0.0100	
<b>Geoid Height (M):</b>		-28.150			

  

Location Description
<p>To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 2.3 miles to the station on the Right. The station is 42' SSW of the center of Hwy 8 and 3.0 NNE of a witness post. The station mark is a 2" aluminum cap stamped 490023A 2017 set on top of a 5/8" rebar driven .3' under the surface of the soil.</p>

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power Pole		304	30.48	100.0
MK # 2	Power Pole		120	12.71	41.7
MK # 3	24" RCP SE end		124	44.29	145.3

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARHP</p> <p>Ref Mon # 2    ARCM</p> <p>Ref Mon # 3    ARLR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 490023A	<b>Date Monumented</b> 9/19/2017	<b>Monumented By</b> AHTD	<b>County</b> MONTGOMERY	<b>Route</b> 8	<b>Job Number:</b> 080503
---------------------------	-------------------------------------	------------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	598,281.5349	0.0030	
<b>Easting (M)</b>	248,053.7385	0.0030	
<b>Elevation (M)*</b>	212.228	0.0018	
<b>Northing (SFT)</b>	1,962,862.0024		
<b>Easting (SFT)</b>	813,822.9737		
<b>Elevation (SFT)*</b>	696.285		

  

<b>Convergence Angle</b>	0	55	31.6427894
<b>Scale Factor</b>	0.999943861		
<b>Elevation Adjust. Factor</b>	0.9999666956		
<b>Combined Adjust. Factor</b>	0.9999105585		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gas meter	181	32.00	105.0
<b>MK # 2</b>	Water meter	115	24.32	79.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500001	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 67N	<b>Job Number:</b> R30026, 030377
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	526,860.4912	
<b>Easting (M)</b>	272,204.2240	
<b>Elevation (M)*</b>	99.530	
<b>Northing (SFT)</b>	1,728,541.4615	
<b>Easting (SFT)</b>	893,056.6916	
<b>Elevation (SFT)*</b>	326.540	

  

<b>Convergence Angle</b>	0	46	21.0658305
<b>Scale Factor</b>	0.999926602		
<b>Elevation Adjust. Factor</b>	0.9999843808		
<b>Combined Adjust. Factor</b>	0.9999109840		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	262	7.40	24.3
MK # 2	LIGHT POLE	289	16.15	53.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AHTD HOPE, DQUA	3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.
Ref Mon # 2: AHTD LITTLE ROCK	
Ref Mon # 3: S 197	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500001A	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 67	<b>Job Number:</b> R30026
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,233.8171	
<b>Easting (M)</b>	272,635.8770	
<b>Elevation (M)*</b>	95.805	
<b>Northing (SFT)</b>	1,729,766.2816	
<b>Easting (SFT)</b>	894,472.8731	
<b>Elevation (SFT)*</b>	314.320	

  

<b>Convergence Angle</b>	0	46	11.7825836
<b>Scale Factor</b>	0.999926364		
<b>Elevation Adjust. Factor</b>	0.9999849653		
<b>Combined Adjust. Factor</b>	0.9999113304		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 371, IN PRESCOTT, GO SOUTH ON HIGHWAY 371 ONE BLOCK, THE FIRST STREET ON THE LEFT AFTER CROSSING THE RAILROAD TRACKS, (EAST 1st STREET) AND TURN LEFT, AND GO 3 1/2 BLOCKS, (0.375 MILES) TO THE STATION ON THE LEFT, NORTHWEST 10.90 METERS OF THE CENTERLINE OF EAST 1st STREET, AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "500001A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	84	28.95	95.0
<b>MK # 2</b>	COMBINATION POLE WITH GUY	190	29.20	95.8
<b>MK # 3</b>	RAIL ROAD SWITCH BOX	258	27.90	91.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD HOPE, DQUA</p> <p><b>Ref Mon # 2</b>    AHTD LITTLE ROCK</p> <p><b>Ref Mon # 3</b>    S 197</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500002	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 24	<b>Job Number:</b> R30011
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	523,685.0472	
<b>Easting (M)</b>	291,984.4390	
<b>Elevation (M)*</b>	56.074	
<b>Northing (SFT)</b>	1,718,123.3590	
<b>Easting (SFT)</b>	957,952.2803	
<b>Elevation (SFT)*</b>	183.969	

  

<b>Convergence Angle</b>	0	39	9.8662348
<b>Scale Factor</b>	0.999928561		
<b>Elevation Adjust. Factor</b>	0.9999912003		
<b>Combined Adjust. Factor</b>	0.9999197619		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24 AND 153, SOUTH OF PRESCOTT, GO EAST ON HIGHWAY 24 0.35 MILES TO THE STATION MARK ON THE RIGHT, 13.40 METERS WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "500002 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	345	14.80	48.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    S 197</p> <p>Ref Mon # 2    AHTD HOPE, LROC</p> <p>Ref Mon # 3    DQUA</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500002A	<b>Date Monumented</b> 7/14/2004	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 24	<b>Job Number:</b> R30011
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,268.5952	
<b>Easting (M)</b>	291,904.7450	
<b>Elevation (M)*</b>	55.732	
<b>Northing (SFT)</b>	1,720,037.8828	
<b>Easting (SFT)</b>	957,690.8176	
<b>Elevation (SFT)*</b>	182.849	

  

<b>Convergence Angle</b>	0	39	11.7445563
<b>Scale Factor</b>	0.999928155		
<b>Elevation Adjust. Factor</b>	0.9999912539		
<b>Combined Adjust. Factor</b>	0.9999194095		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND 24, SOUTH OF PRESCOTT, GO EAST ON HIGHWAY 24 FOR 26.10 METERS TO THE STATION ON THE LEFT, EAST 11.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "500002A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	147	4.80	15.7
MK # 2	FENCE CORNER	347	6.40	21.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    S 197 Ref Mon # 2    AHTD HOPE, LROC Ref Mon # 3    DQUA	<b>Comments</b> 3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500003	<b>Date Monumented</b> 11/4/2005	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 24	<b>Job Number:</b> 030323
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,188.3471	
<b>Easting (M)</b>	285,344.9580	
<b>Elevation (M)*</b>	59.452	
<b>Northing (SFT)</b>	1,719,774.6021	
<b>Easting (SFT)</b>	936,169.2497	
<b>Elevation (SFT)*</b>	195.052	

  

<b>Convergence Angle</b>	0	41	34.4261205
<b>Scale Factor</b>	0.999928263		
<b>Elevation Adjust. Factor</b>	0.9999906701		
<b>Combined Adjust. Factor</b>	0.9999189338		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: LROC	
Ref Mon # 2: Hopeport	
Ref Mon # 3: S 197	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 46 48.4173732
<b>Longitude</b>	93 14 16.7940456
<b>Ellipsoid Height (M):</b>	32.879
<b>Geoid Height (M):</b>	-26.573

Location Description
<p>To reach the station from the junction of highways 53 and 24 south of Gurdon go west on Hwy-24 for 4.70 mi. to the station on the right just past a bridge over Terra Rouge creek and set between the roadway and an asphalt drive that goes beside and then under the bridge. 10.60 meters from the center of the asphalt drive, 7.40 meters North of the center of Hwy-24 and 6.00 meters south of a witness post. The station mark is a standard 64mm cap stamped "500003 2004" set on top of an iron rod 1.22 meters long and just below the grounds surface.</p>

<b>AZ Mark Station</b>	500003A
<b>Geodetic Azimuth</b>	289 27 34
<b>Grid Azimuth</b>	290 09 09

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500003A	<b>Date Monumented</b> 11/4/2005	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 24	<b>Job Number:</b> 030323
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	524,448.0761	
<b>Easting (M)</b>	284,637.2250	
<b>Elevation (M)*</b>	60.371	
<b>Northing (SFT)</b>	1,720,626.7297	
<b>Easting (SFT)</b>	933,847.2957	
<b>Elevation (SFT)*</b>	198.067	

  

<b>Convergence Angle</b>	0	41	49.8907449
<b>Scale Factor</b>	0.999928090		
<b>Elevation Adjust. Factor</b>	0.9999905259		
<b>Combined Adjust. Factor</b>	0.9999186166		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of a culvert	215	7.20	23.6
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	500003
<b>Geodetic Azimuth</b>	109 27 19
<b>Grid Azimuth</b>	110 09 09

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC	
Ref Mon # 2 Hopeport	
Ref Mon # 3 S 197	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500004	<b>Date Monumented</b> 1/5/2010	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 32	<b>Job Number:</b> 030BR1
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,915.6592	
<b>Easting (M)</b>	266,490.7460	
<b>Elevation (M)*</b>	87.438	
<b>Northing (SFT)</b>	1,640,139.9586	
<b>Easting (SFT)</b>	874,311.7225	
<b>Elevation (SFT)*</b>	286.870	

  

<b>Convergence Angle</b>	0	48	17.1498818
<b>Scale Factor</b>	0.999952662		
<b>Elevation Adjust. Factor</b>	0.9999862783		
<b>Combined Adjust. Factor</b>	0.9999389410		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	83	20.51	67.3
MK # 2	TELEPHONE RISER	15	9.63	31.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARHP, ARLR	
Ref Mon # 2 ARCM	
Ref Mon # 3 290020	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 33 32.6228292
<b>Longitude</b>	93 26 16.3410576
<b>Ellipsoid Height (M):</b>	60.759
<b>Geoid Height (M):</b>	-26.679

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 32, SOUTHWEST OF BODCAW, GO WEST ON 32 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, 4.5 FEET EAST OF THE CENTERLINE OF A GRAVEL FIELD ROAD, NORTH 23.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 32.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500004 2010" ON TOP OF A 4.0 FOOT REBBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500004A	<b>Date Monumented</b> 1/5/2010	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 32	<b>Job Number:</b> 030BR1
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,596.1362	
<b>Easting (M)</b>	267,166.2490	
<b>Elevation (M)*</b>	88.511	
<b>Northing (SFT)</b>	1,639,091.6568	
<b>Easting (SFT)</b>	876,527.9353	
<b>Elevation (SFT)*</b>	290.390	

  

<b>Convergence Angle</b>	0	48	2.3965002
<b>Scale Factor</b>	0.999953065		
<b>Elevation Adjust. Factor</b>	0.9999861099		
<b>Combined Adjust. Factor</b>	0.9999391756		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SERVICE POLE WW/ GUY	236	23.47	77.0
<b>MK # 2</b>	TELEPHONE BOX	138	108.60	356.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHP, ARLR	
<b>Ref Mon # 2</b> ARCM	
<b>Ref Mon # 3</b> 290020	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 33 22.5596304
<b>Longitude</b>	93 25 49.9811736
<b>Ellipsoid Height (M):</b>	61.840
<b>Geoid Height (M):</b>	-26.671

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 32, SOUTHWEST OF BODCAW, GO WEST ON 32 FOR 1.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 18.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 23.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500004A 2010" ON TOP OF A 4.0 FOOT REBBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500005	<b>Date Monumented</b> 3/1/2011	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 371	<b>Job Number:</b> 030394
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	494,648.6842		
<b>Easting (M)</b>	279,473.6890		
<b>Elevation (M)*</b>	105.914		
<b>Northing (SFT)</b>	1,622,859.8914		
<b>Easting (SFT)</b>	916,906.5947		
<b>Elevation (SFT)*</b>	347.487		

  

<b>Convergence Angle</b>	0	43	34.0035497
<b>Scale Factor</b>	0.999959580		
<b>Elevation Adjust. Factor</b>	0.9999833789		
<b>Combined Adjust. Factor</b>	0.9999429595		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 0.25 MILES TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 33.5 FEET, NORTH OF THE CENTERLINE OF A GRAVEL DRIVE 56.1 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500005 2011" ON TOP OF A 2 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND .			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP WITH LIGHT	168	7.80	25.6
MK # 2	FH	324	15.48	50.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> DIGITAL LEVELS FROM THIRD ORDER BENCH MARK 17 EV 1973 BY S5112 ON 3/3/2011.
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> 290020	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500006	<b>Date Monumented</b> 6/21/2011	<b>Monumented By</b> AHTD	<b>County</b> Nevada	<b>Route</b> Highway 355	<b>Job Number:</b> BR5006
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	488,921.2182	0.0066	
<b>Easting (M)</b>	271,092.9928	0.0060	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,604,069.0300		
<b>Easting (SFT)</b>	889,410.9272		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	34.0620121
<b>Scale Factor</b>	0.999968290		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	telephone box	171	0.91	3.0
<b>MK # 2</b>	36" RCP	87	11.89	39.0
<b>MK # 3</b>	36" plastic pipe culvert	292	18.29	60.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> SHRV	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	33 27 37.8490605
<b>Longitude</b>	93 23 12.1538412
<b>Ellipsoid Height (M):</b>	69.158 0.0151
<b>Geoid Height (M):</b>	-26.586 0.3195

Location Description
<p>To reach the station from the intersection of Highway 53 and Highway 355, in Falcon, go east on Highway 355 for 1.6 miles to the station on the right, 28 feet south of the centerline of highway 355 and 2 feet north of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006", set on top of a 4 foot rebar and driven 0.2 inches below ground level.</p>

<b>AZ Mark Station</b>	500006A
<b>Geodetic Azimuth</b>	26 18 32
<b>Grid Azimuth</b>	27 05 06

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500006A	<b>Date Monumented</b> 6/21/2011	<b>Monumented By</b> AHTD	<b>County</b> Nevada	<b>Route</b> CR 7	<b>Job Number:</b> BR5006
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	489,334.5858	0.0062	
<b>Easting (M)</b>	271,304.3873	0.0063	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	1,605,425.2202		
<b>Easting (SFT)</b>	890,104.4773		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	29.6017586
<b>Scale Factor</b>	0.999967641		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	telephone box	25	5.33	17.5
<b>MK # 2</b>	service pole	159	15.54	51.0
<b>MK # 3</b>	combination pole	82	24.38	80.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> SHRV	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	33 27 51.3581975
<b>Longitude</b>	93 23 4.1847010
<b>Ellipsoid Height (M):</b>	69.290 0.0153
<b>Geoid Height (M):</b>	-26.575 0.3195

Location Description
<p>to reach the station from the intersection of highway 355 and county road 7, go north on county road 7 for 0.3 miles to the station on the right, 33 feet east of the centerline of county road 7 and 2 feet west of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006A". set on top of a 4 foot rebar and driven 0.2 inches below ground level.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500007	<b>Date Monumented</b> 7/1/2014	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> CR 37	<b>Job Number:</b> BR5007
--------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	533,663.7312	0.0040	
<b>Easting (M)</b>	273,064.9500	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,750,861.7581		
<b>Easting (SFT)</b>	895,880.5901		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	4.3211628
<b>Scale Factor</b>	0.999922862		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1		334	14.80	48.6
MK # 2	CENTER OF GATE	269	62.80	206.0
MK # 3	SOUTH END OF 18" CMP	22	11.90	39.0

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCM</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHP	Ref Mon # 3	ARCM	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARHP						
Ref Mon # 3	ARCM						

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12A

**Latitude** 33 51 50.8681584

**Longitude** 93 22 19.0158312

**Ellipsoid Height (M):** 87.529 0.0160

**Geoid Height (M):** -26.846 0.0160

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 FOR 1.2 MILES TO COUNTY ROAD 42N AND TURN RIGHT AND GO 0.5 MILES TO COUNTY ROAD 60W AND TURN RIGHT AND GO 2.15 MILES TO COUNTY ROAD 37 AND TURN LEFT (NORTH) AND GO 0.35 MILES TO THE MARK ON THE LEFT, 21.2 FEET WEST OF THE C/L OF CR 37, 9.2 FEET NORTH OF THE C/L OF A GRAVEL DRIVE AND WEST 49.3 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500007 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	500007A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500007A	<b>Date Monumented</b> 7/1/2014	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> CR 37	<b>Job Number:</b> BR5007
---------------------------	------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	533,105.6418	0.0050	
<b>Easting (M)</b>	273,055.8198	0.0050	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,749,030.7598		
<b>Easting (SFT)</b>	895,850.6355		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	4.3570963
<b>Scale Factor</b>	0.999923126		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	22	15.20	49.9
<b>MK # 2</b>	CENTER OF CATTLE GUARD	132	22.70	74.5
<b>MK # 3</b>	NORTH END OF STEEL CULV	330	9.80	32.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	33 51 32.7511512
<b>Longitude</b>	93 22 19.0800336
<b>Ellipsoid Height (M):</b>	78.512 0.0170
<b>Geoid Height (M):</b>	-26.842 0.0170

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 FOR 1.2 MILES TO COUNTY ROAD 42N AND TURN RIGHT AND GO 0.5 MILES TO COUNTY ROAD 60W AND TURN RIGHT AND GO 2.15 MILES TO COUNTY ROAD 37 AND THE MARK IN THE NORTHEAST CORNER OF THE JUNCTION, EAST 23.5 FEET OF THE CENTERLINE OF CR 37 AND NORTH 17 FEET OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500007A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500008	<b>Date Monumented</b> 9/26/2017	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 19	<b>Job Number:</b> 030458
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	543,034.4253	0.0020	
<b>Easting (M)</b>	266,544.6232	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,781,605.4437		
<b>Easting (SFT)</b>	874,488.4846		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	48	29.1769004
<b>Scale Factor</b>	0.999919606		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE CORNER LITTLE MISSOURI RIVER RELI FEED	195	18.07	59.3
MK # 2	NORTH END EAST GUARDRAIL OF RELIEF BRIDGE	345	9.14	30.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARHP	
Ref Mon # 3    ARLR, ARRV, OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 500008A	<b>Date Monumented</b> 9/26/2017	<b>Monumented By</b> AHTD	<b>County</b> NEVADA	<b>Route</b> 19	<b>Job Number:</b> 030458
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	543,462.1277	0.0020
<b>Easting (M)</b>	266,548.9848	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,783,008.6640	
<b>Easting (SFT)</b>	874,502.7943	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	29.2133275
<b>Scale Factor</b>	0.999919507		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARHP	
Ref Mon # 3    ARLR, ARRV, OKHV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 57 5.9675616
<b>Longitude</b>	93 26 37.8948300
<b>Ellipsoid Height (M):</b>	49.300 0.0050
<b>Geoid Height (M):</b>	-26.994 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 29S AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 2.6 MILES TO THE MARK ON THE LEFT, 21.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "500008A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510001	<b>Date Monumented</b> 9/11/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 43	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 194,131.1950		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 277,311.3690		<b>Latitude</b> 36 4 31.7933760
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 21 43.6044312
<b>Northing (SFT)</b> 636,912.0956		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 909,812.3831		<b>Geoid Height (M):</b> -28.706
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 47 33.4031428	<b>Location Description</b> THE STATION IS ON THE RIGHT SIDE OF HWY. 43 1.50 MILES SOUTH OF AHTD GPS STATION 90510002, 57.3 FEET LEFT OF THE CENTERLINE OF HWY. 43, 0.05 MILES NORTH OF HWY. 103, 0.13 FEET WEST OF A FENCE AND 1.3 FEET EAST OF A WITNESS POST.
<b>Scale Factor</b> 0.999972609	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN 4" PERSIMMON	336	14.91	48.9	90510002
MK # 2	NBC IN 4" PERSIMMON	321	13.62	44.7	37 19 25
MK # 3	NBC IN POWER POLE	246	9.86	32.4	38 06 58

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 NONE Ref Mon # 3 NONE	<b>Comments</b> Old PN: 90510001 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510002	<b>Date Monumented</b> 9/11/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 43	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 194,311.1910		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 277,452.5860		<b>Latitude</b> 36 4 37.6961124
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 21 38.0604096
<b>Northing (SFT)</b> 637,502.6325		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 910,275.6926		<b>Geoid Height (M):</b> -28.708
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 47 30.1770814	<b>Location Description</b> FROM THE JCT. OF HWY. 103 AND HWY. 43, GO 0.20 MILES NORTH ON HWY. 43 TO THE STATION ON THE LEFT. THE STATION IS 36.5 FEET LEFT OF THE CENTERLINE OF HWY. 43, 39.8 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HOUSE AND 1.6 FEET EAST OF A WITNESS POST.
<b>Scale Factor</b> 0.999972855	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	278	11.37	37.3
MK # 2	NBC IN TOP OF FENCE POST	305	19.84	65.1
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BURLINGTON RESET	Old point number 90510002. NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510003	<b>Date Monumented</b> 9/12/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 103	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	194,045.5879	
<b>Easting (M)</b>	275,469.4170	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	636,631.2330	
<b>Easting (SFT)</b>	903,769.2456	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	16.2083835
<b>Scale Factor</b>	0.999972459		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
GO NORTH ON HWY. 103 FOR 1.4 MILES, THEN RIGHT 0.10 MILES ON A FIELD ROAD TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF THE CENTERLINE OF A PRIVATE ROAD AND 1.7 FEET SOUTH OF A WITNESS POST.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 12" RED OAK	10	11.80	38.7
<b>MK # 2</b>	NBC IN 12" HICKORY	30	30.53	100.2
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  Old point number 90510003 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510004	<b>Date Monumented</b> 9/12/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 103	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	194,223.0970	
<b>Easting (M)</b>	275,403.1610	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	637,213.6107	
<b>Easting (SFT)</b>	903,551.8707	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	17.8070918
<b>Scale Factor</b>	0.999972697		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> BURLINGTON RESET <b>Ref Mon # 2</b> NONE <b>Ref Mon # 3</b> NONE	<b>Comments</b>  Old point number 90510004. NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
---	---

  

Location Description	
THE STATION IS 0.1 MILES NORTHWEST FROM AHTD GPS STATION 90510003 IN A PASTURE, 115 FEET NORTHWEST OF A POND LEVEE, 110 FEET SOUTHEAST OF A FENCE AND 4.7 FEET EAST OF A WITNESS POST .	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 33.9117348
<b>Longitude</b>	93 22 59.9131020
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-28.692

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510005	<b>Date Monumented</b> 9/12/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 103	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 195,833.5129		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 273,834.5330		<b>Latitude</b> 36 5 25.4366124
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 24 3.5157096
<b>Northing (SFT)</b> 642,497.1169		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 898,405.4637		<b>Geoid Height (M):</b> -28.688
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 48 54.8173937	<b>Location Description</b>  FROM THE JCT. OF HWY. 43 AND HWY. 103, GO 4.1 MILES ON HWY. 103 TO THE STATION ON THE RIGHT. THE STATION IS 200 FEET WEST OF A CROSS FENCE AND 200 FEET SOUTH OF A POWER POLE.
<b>Scale Factor</b> 0.999974870	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	Old point number 90510005 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510006	<b>Date Monumented</b> 9/12/1990	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 103	<b>Job Number:</b> R90034
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	195,998.1760	
<b>Easting (M)</b>	273,653.0630	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	643,037.3491	
<b>Easting (SFT)</b>	897,810.0909	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	59.0926897
<b>Scale Factor</b>	0.999975095		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 4" SWEET GUM	255	22.78	74.7
<b>MK # 2</b>	NBC IN 4" SWEET GUM	221	22.29	73.1
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BURLINGTON RESET	Old point number 90510006 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
<b>Ref Mon # 2</b> NONE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510007	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 65	<b>Job Number:</b> R90098
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	193,902.9030	
<b>Easting (M)</b>	314,750.5860	
<b>Elevation (M)*</b>	385.055	
<b>Northing (SFT)</b>	636,163.1076	
<b>Easting (SFT)</b>	1,032,644.2142	
<b>Elevation (SFT)*</b>	1,263.301	

  

<b>Convergence Angle</b>	0	33	2.6833824
<b>Scale Factor</b>	0.999972893		
<b>Elevation Adjust. Factor</b>	0.9999395760		
<b>Combined Adjust. Factor</b>	0.9999124706		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.09 KM. (1.30 MI) TO THE STATION ON THE RIGHT. 9.12 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.26 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MARKER	4	22.91	75.2
<b>MK # 2</b>	WOODEN FENCE POST	223	1.65	5.4
<b>MK # 3</b>	CONCRETE RIGHT OF WAY MARKER	312	13.43	44.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    VERONA</p> <p><b>Ref Mon # 2</b>    BURLINGTON</p> <p><b>Ref Mon # 3</b>    640002</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510008	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 65	<b>Job Number:</b> 0098, Mobile LiDAR-CLS, 090
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,509.0011	
<b>Easting (M)</b>	313,489.5704	
<b>Elevation (M)*</b>	340.468	
<b>Northing (SFT)</b>	644,713.2811	
<b>Easting (SFT)</b>	1,028,507.0322	
<b>Elevation (SFT)*</b>	1,117.019	

  

<b>Convergence Angle</b>	0	33	32.6009187
<b>Scale Factor</b>	0.999976484		
<b>Elevation Adjust. Factor</b>	0.9999465723		
<b>Combined Adjust. Factor</b>	0.9999230576		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	6	2.7914400
<b>Longitude</b>	92	57	38.6737416
<b>Ellipsoid Height:</b>	311.538		
<b>Grid Northing (Meters)</b>	196,509.3300		
<b>Grid Easting (Meters)</b>	313,489.6460		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HIGHWAY 123 IN WESTERN GROVE, GO NORTH ON HWY-65 FOR 0.97 KM. (0.60 MI.) TO THE JUNCTION WITH "GLADEN STREET" AND THE STATION ON THE LEFT ON TOP OF A BANK ABOUT 2.0 METERS HIGHER THAN THE ROAD SURFACE. 42.03 METERS SOUTH OF THE CENTER OF "GLADEN ST.", 33.63 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.77 METERS NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CEDAR FENCE POST	281	3.04	10.0
<b>MK # 2</b>	CONCRETE RIGHT OF WAY MARKER	233	0.61	2.0
<b>MK # 3</b>	CEDAR FENCE POST	157	4.96	16.3

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	VERONA	<p>THE ELEVATION BY 3-WIRE USING USC&amp;GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS</p>
<b>Ref Mon # 2</b>	BURLINGTON	
<b>Ref Mon # 3</b>	640002	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510008A	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 65	<b>Job Number:</b> 0098, Mobile LiDAR-CLS, 090
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	197,010.9392	
<b>Easting (M)</b>	313,480.8478	
<b>Elevation (M)*</b>	335.957	
<b>Northing (SFT)</b>	646,360.0564	
<b>Easting (SFT)</b>	1,028,478.4148	
<b>Elevation (SFT)*</b>	1,102.219	

  

<b>Convergence Angle</b>	0	33	32.9177837
<b>Scale Factor</b>	0.999977198		
<b>Elevation Adjust. Factor</b>	0.9999472802		
<b>Combined Adjust. Factor</b>	0.9999244794		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	6	19.0732500
<b>Longitude</b>	92	57	39.2178960
<b>Ellipsoid Height:</b>	307.023		
<b>Grid Northing (Meters)</b>	197,011.2730		
<b>Grid Easting (Meters)</b>	313,480.9330		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	186	12.10	39.7
<b>MK # 2</b>	WOODEN FENCE POST	359	24.90	81.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	36 6 19.0623960
<b>Longitude</b>	92 57 39.2211720
<b>Ellipsoid Height (M):</b>	307.692
<b>Geoid Height (M):</b>	-28.236

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO NORTH ON HWY-65 FOR 1.45 KM. (0.90 ML) TO THE STATION ON THE LEFT. 54.0 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.85 METERS WEST OF THE CENTER OF HWY-65 AND 0.93 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510009	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090169, 009784
--------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,410.9590	
<b>Easting (M)</b>	297,546.0780	
<b>Elevation (M)*</b>	256.634	
<b>Northing (SFT)</b>	631,268.2880	
<b>Easting (SFT)</b>	976,199.0909	
<b>Elevation (SFT)*</b>	841.974	

  

<b>Convergence Angle</b>	0	39	42.3828830
<b>Scale Factor</b>	0.999970665		
<b>Elevation Adjust. Factor</b>	0.9999597274		
<b>Combined Adjust. Factor</b>	0.9999303935		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE BOONE / NEWTON COUNTY LINE ON HIGHWAY 7 SOUTH OF HARRISON, GO SOUTH ON STATE HIGHWAY 7 FOR 5.00 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 7, 7.00 METERS NORTH OF THE EDGE OF AN ASPHALT PULL IN, 7.00 METERS WEST OF THE CENTER OF A GRAVEL ROAD TO SHADDOX CEMETERY, AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "510009 2002" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POST OF HIGHWAY STOP SIGN	160	3.55	11.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD HAR 1, Russport</p> <p><b>Ref Mon # 2</b>    Butler, Conway Mo. CORS</p> <p><b>Ref Mon # 3</b>    Fayetteville, Muscogee Ok. CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by S5103 by 3-wire from NGS Point N 18.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510009A	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090169, 009784
---------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 192,158.5950		<b>Latitude</b> 36 3 36.0657144
<b>Easting (M)</b> 297,375.6630		<b>Longitude</b> 93 8 20.8436424
<b>Elevation (M)*</b> 249.991		<b>Ellipsoid Height (M):</b> 221.835
<b>Northing (SFT)</b> 630,440.3238		<b>Geoid Height (M):</b> -28.156
<b>Easting (SFT)</b> 975,639.9877		
<b>Elevation (SFT)*</b> 820.179		

  

<b>Convergence Angle</b> 0 39 46.2773397	<b>Location Description</b>
<b>Scale Factor</b> 0.999970332	<p>TO REACH THE STATION FROM THE BOONE / NEWTON COUNTY LINE ON HIGHWAY 7 SOUTH OF HARRISON, GO SOUTH ON STATE HIGHWAY 7 FOR 5.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "510009A 2002" SET ON TOP OF AN IRON ROD 0.40 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999607698	
<b>Combined Adjust. Factor</b> 0.9999311030	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	2.55	8.4
MK # 2	COMBINATION POLE	223	17.15	56.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HAR 1, Russport <b>Ref Mon # 2</b> Butler, Conway Mo. CORS <b>Ref Mon # 3</b> Fayetteville, Muscogee Ok. CORS	Elevation by S5103 by 3-wire from NGS Point N 18.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510010	<b>Date Monumented</b> 10/14/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> CR 46	<b>Job Number:</b> 090169
--------------------------	--------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	184,147.1109	
<b>Easting (M)</b>	296,540.2070	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	604,155.9797	
<b>Easting (SFT)</b>	972,898.9958	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	3.5314237
<b>Scale Factor</b>	0.999960667		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL T-POST PAINTED PURPLE	147	8.65	28.4
<b>MK # 2</b>	4" BLAZED PINE TREE	597.7		
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> W H PHILLIPS	
<b>Ref Mon # 2</b> 510009	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 15.8326224
<b>Longitude</b>	93 8 50.4949740
<b>Ellipsoid Height (M):</b>	359.474
<b>Geoid Height (M):</b>	-28.106

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.65 MILES TO THE STATION ON THE RIGHT .7.5 METERS WEST OF A 4' NETWORK 1 BARB T-POST FENCE AND WEST 7.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010 2003" ON TOP OF A 0.70 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	510010A
<b>Geodetic Azimuth</b>	193 46 35
<b>Grid Azimuth</b>	194 26 39

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510010A	<b>Date Monumented</b> 10/14/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> CR 46	<b>Job Number:</b> 090169
---------------------------	--------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	183,979.5629	
<b>Easting (M)</b>	296,497.0510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	603,606.2826	
<b>Easting (SFT)</b>	972,757.4082	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	4.4885400
<b>Scale Factor</b>	0.999960481		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WHITE BLAZED 4" ELM	138.5	10.40	34.1
<b>MK # 2</b>	WHITE BLAZED 16" WHITE OAK	20	27.20	89.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> W H PHILLIPS	
<b>Ref Mon # 2</b> 510009	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 10.3804476
<b>Longitude</b>	93 8 52.1397888
<b>Ellipsoid Height (M):</b>	370.069
<b>Geoid Height (M):</b>	-28.103

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.75 MILES TO THE STATION IN THE CENTERLINE OF THE ROAD, 6.5 METERS WEST OF A 4' NETWIRE 2 BARB T-POST FENCE AND WEST 6.35 METERS OF A WITNESS POST AND EAST 5.55 METERS OF ANOTHER WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010A 2003" ON TOP OF A 0.52 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510011	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	155,374.7389	
<b>Easting (M)</b>	301,014.2540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	509,758.6225	
<b>Easting (SFT)</b>	987,577.5983	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	12.1733862
<b>Scale Factor</b>	0.999939110		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	359	7.47	24.5
<b>MK # 2</b>	Wooden corner fence post	209	2.13	7.0
<b>MK # 3</b>	Service pole with light	255	6.40	21.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> W H Phillips	
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> Tri County	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    43    43.9721868
<b>Longitude</b>	93    5    39.1249716
<b>Ellipsoid Height (M):</b>	607.323
<b>Geoid Height (M):</b>	-28.014

Location Description
<p>To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.50 miles crossing into Newton county to the station on the left. 33.0 feet west of the center of hwy-7, 16.0 feet north of the center of a paved driveway and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510011" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510011A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	155,825.9430	
<b>Easting (M)</b>	301,071.8130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	511,238.9480	
<b>Easting (SFT)</b>	987,766.4398	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	10.9566694
<b>Scale Factor</b>	0.999939292		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	15	35.36	116.0
<b>MK # 2</b>	15 inch Pine tree on the right of way	69	11.83	38.8
<b>MK # 3</b>	National Forest boundry marker	116	13.66	44.8

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 43 58.6326324
<b>Longitude</b>	93 5 37.0340304
<b>Ellipsoid Height (M):</b>	630.161
<b>Geoid Height (M):</b>	-28.008

Location Description
To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.80 miles crossing into Newton county to the station on the right. 19.0 feet east of the center of hwy-7 and 41.3 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "510011A" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510012	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,598.2569	
<b>Easting (M)</b>	302,080.8200	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	526,896.1145	
<b>Easting (SFT)</b>	991,076.8236	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	48.8077770
<b>Scale Factor</b>	0.999941520		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	East end of concrete culvert with rock headwall	294	5.33	17.5
<b>MK # 2</b>	Telephone riser	118	37.19	122.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 33.8355624
<b>Longitude</b>	93 4 58.9709172
<b>Ellipsoid Height (M):</b>	592.740
<b>Geoid Height (M):</b>	-27.964

Location Description
<p>The station is located 248.0 feet south of the northern most junction of highways 7 and 123 in the "V" formed by the road's intersection near the small village of Lurton. 47.0 feet east of the center of hwy-7 25.5 feet west of the center of hwy-123 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510012" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground. Elevation on this station was arrived at by digital leveling from BM TT 72 TX PID FG0973</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510012A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 123	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,128.6640	
<b>Easting (M)</b>	302,419.9770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	525,355.4585	
<b>Easting (SFT)</b>	992,189.5412	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	37	40.8308142
<b>Scale Factor</b>	0.999941278		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	315	27.74	91.0
<b>MK # 2</b>	Power Pole	170	28.35	93.0
<b>MK # 3</b>	SW end of CMP Culvert	128	39.32	129.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 18.7201776
<b>Longitude</b>	93 4 45.2624196
<b>Ellipsoid Height (M):</b>	583.007
<b>Geoid Height (M):</b>	-27.966

Location Description
<p>To reach the station from Jct. SR-123 North &amp; SR-7 South, go Left on SR-123 North for 0.30 miles to the station on the Right. The station is a standard 2 1/2 inch cap stamped "510012A" set on top of a 4 foot rebar and is driven 0.2 feet below the surface of the ground. Elevation on this station was arrived at by digital leveling from BM TT 72 TX PID FG0973</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510013	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,415.7600	
<b>Easting (M)</b>	299,345.0270	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	529,578.2059	
<b>Easting (SFT)</b>	982,101.1427	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	52.4055221
<b>Scale Factor</b>	0.999941941		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW end 18" Culvert	128	31.09	102.0
<b>MK # 2</b>	18" Elm tree	229	11.52	37.8
<b>MK # 3</b>	Forest Service Rd. #1208 Sign Post	355	13.41	44.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 59.3697576
<b>Longitude</b>	93 6 48.2643360
<b>Ellipsoid Height (M):</b>	569.927
<b>Geoid Height (M):</b>	-27.973

Location Description
To reach the station from Jct. SR-7 & SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 1.90 miles to the station on the Left. 27.8 feet SE of Forest Service Rd. #1208 (Gravel Road). 1.5 feet NE of a witness post. 88 feet SW of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013 - 2003" set on top of a 4 foot rebar and driven flush with the ground. The station is just South of the "Who-Da Thought it" store.

<b>AZ Mark Station</b>	510013A
<b>Geodetic Azimuth</b>	352 33 23
<b>Grid Azimuth</b>	353 12 15

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510013A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,665.9029	
<b>Easting (M)</b>	299,315.2190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	530,398.8831	
<b>Easting (SFT)</b>	982,003.3477	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	53.1617456
<b>Scale Factor</b>	0.999942078		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" oak tree	313	13.11	43.0
<b>MK # 2</b>	Cable marker	356	39.32	129.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 47 7.4748048
<b>Longitude</b>	93 6 49.5639144
<b>Ellipsoid Height (M):</b>	578.446
<b>Geoid Height (M):</b>	-27.972

Location Description
<p>To reach the station from Jct. SR-7 &amp; SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 2.90 miles to the station on the Left. 14.3 feet E of a witness post. 31 feet W of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013A - 2003" set on top of a 4 foot rebar and driven flush with the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510014	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,890.3659	
<b>Easting (M)</b>	296,725.7330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	540,977.8088	
<b>Easting (SFT)</b>	973,507.6757	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	54.0296208
<b>Scale Factor</b>	0.999943963		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from SR-7 South &amp; SR-16 West, (South of Jasper) go South on SR-7 for 4.50 miles to the station on the left. 20.5 feet SW of centerline of a field road. 1.5 feet from a witness post. 36 feet NW of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014 - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	231	23.77	78.0
MK # 2	Metal gate post	040	8.08	26.5
MK # 3	7" pine tree on R/W	058	27.43	90.0

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	Tri County	
Ref Mon # 2	W H Phillips	
Ref Mon # 3	ARFY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510014A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,802.2600	
<b>Easting (M)</b>	296,285.9770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	540,688.7480	
<b>Easting (SFT)</b>	972,064.9095	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	4.1990022
<b>Scale Factor</b>	0.999943904		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	228	29.87	98.0
<b>MK # 2</b>	Telephone riser	290	30.48	100.0
<b>MK # 3</b>	Water vale@sign	103	8.23	27.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 48 48.1058640
<b>Longitude</b>	93 8 51.6422148
<b>Ellipsoid Height (M):</b>	601.112
<b>Geoid Height (M):</b>	-27.961

Location Description
To reach the station from SR-7 South & SR-16 West, (South of Jasper) go South on SR-7 for 4.10 miles to the station on the left. 4 feet SE of a witness post. 32 feet NE of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014A - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510015	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Nweton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,092.3590	
<b>Easting (M)</b>	292,034.5260	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	554,763.8478	
<b>Easting (SFT)</b>	958,116.6074	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	43.9497749
<b>Scale Factor</b>	0.999946785		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A	000	0.00	0.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	510015A
<b>Geodetic Azimuth</b>	6 57 53
<b>Grid Azimuth</b>	7 39 37

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510015A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Nweton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,485.1570	
<b>Easting (M)</b>	292,087.3570	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	556,052.5526	
<b>Easting (SFT)</b>	958,289.9371	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	42.8351646
<b>Scale Factor</b>	0.999947075		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser	053	44.50	146.0
<b>MK # 2</b>	North end of 15" CMP culvert	189	30.48	100.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510016	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	175,423.8330	
<b>Easting (M)</b>	292,952.9840	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	575,536.3588	
<b>Easting (SFT)</b>	961,129.9150	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	24.4194181
<b>Scale Factor</b>	0.999951925		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	024	15.24	50.0
<b>MK # 2</b>	Combination pole	187	19.51	64.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 54 31.4369028
<b>Longitude</b>	93 11 9.5018748
<b>Ellipsoid Height (M):</b>	614.234
<b>Geoid Height (M):</b>	-27.971

Location Description
<p>To reach the station from SR-7 North &amp; SR-16 West, (South of Jasper) go North on SR-7 for 4.40 miles to the station on the right atop a bluff above the level of SR-7 (Approximately 8-10 feet) in an area that used to a roadside park, at the North end of a picket fence and old sign with rock border. 40 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016 - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510016A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	175,048.3019	
<b>Easting (M)</b>	292,840.3980	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	574,304.3038	
<b>Easting (SFT)</b>	960,760.5391	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	26.9270593
<b>Scale Factor</b>	0.999951592		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North end of 18" CMP culvert	238	6.10	20.0
<b>MK # 2</b>	Combination pole	195	23.16	76.0
<b>MK # 3</b>	Wood fence corner	150	3.05	10.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 54 19.2091032
<b>Longitude</b>	93 11 13.8112836
<b>Ellipsoid Height (M):</b>	614.465
<b>Geoid Height (M):</b>	-27.967

Location Description
To reach the station from SR-7 North & SR-16 West, (South of Jasper) go North on SR-7 for 4.20 miles to the station on the right atop a ridge line along the highway in front of an RV park. 35 feet N of centerline of asphalt driveway. 32.5 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

<b>AZ Mark Station</b>	510016
<b>Geodetic Azimuth</b>	15 59 54
<b>Grid Azimuth</b>	16 41 21

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510017	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,550.7680	
<b>Easting (M)</b>	294,955.3510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	585,795.3113	
<b>Easting (SFT)</b>	967,699.3474	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	38.8095323
<b>Scale Factor</b>	0.999954848		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Flag pole	177	10.45	34.3
<b>MK # 2</b>	Power pole with transformer	219	18.90	62.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 13.6626396
<b>Longitude</b>	93 9 51.1207884
<b>Ellipsoid Height (M):</b>	594.377
<b>Geoid Height (M):</b>	-28.017

Location Description
<p>To reach the station from jct. SR-7 &amp; SR-374, (South of Jasper) go South on SR-7 for 2.40 miles to the station on the right in the ditch in front of the "Gum Springs" church. 122 feet NW of church gravel driveway. 26 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017 - 2003" set on top of a 4 foot rebar and driven flush with the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510017A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,328.1829	
<b>Easting (M)</b>	295,184.7960	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	585,065.0467	
<b>Easting (SFT)</b>	968,452.1182	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	33.4220665
<b>Scale Factor</b>	0.999954636		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Twin cedar tree	001	4.72	15.5
<b>MK # 2</b>	4" cedar tree	111	3.66	12.0
<b>MK # 3</b>	Sign post	125	16.92	55.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	
<b>Ref Mon # 2</b> W H Phillips	
<b>Ref Mon # 3</b> ARFY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 6.5290200
<b>Longitude</b>	93 9 41.8623696
<b>Ellipsoid Height (M):</b>	603.173
<b>Geoid Height (M):</b>	-28.018

Location Description
<p>To reach the station from jct. SR-7 &amp; SR-374, (South of Jasper) go South on SR-7 for 2.60 miles to the station on the left. 73 feet North of centerline of driveway. 34 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510018	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157, 090288
--------------------------	------------------------------------	------------------------------	-------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,716.0790	
<b>Easting (M)</b>	296,119.3340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	596,180.1692	
<b>Easting (SFT)</b>	971,518.1816	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	12.6474981
<b>Scale Factor</b>	0.999958047		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	290	24.38	80.0
<b>MK # 2</b>	Electric pedestal	355	19.20	63.0
<b>MK # 3</b>	Electric pedestal	074	18.90	62.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 57 56.8016496
<b>Longitude</b>	93 9 6.1610472
<b>Ellipsoid Height (M):</b>	627.310
<b>Geoid Height (M):</b>	-28.047

Location Description
To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.10 miles to a gravel road (Town Ln.) on the left, turn left on Town Ln. and go West for 0.10 miles through a left and right turn to the station on the right of the gravel road along side a barbed wire fence. 11 feet N of centerline of gravel road (Town Ln.). 1.5 feet N of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018 - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

<b>AZ Mark Station</b>	510018A
<b>Geodetic Azimuth</b>	211 55 33
<b>Grid Azimuth</b>	212 35 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510018A	<b>Date Monumented</b> 1/1/2003	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,447.5279	
<b>Easting (M)</b>	295,947.6150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	595,299.0978	
<b>Easting (SFT)</b>	970,954.8002	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	16.5622685
<b>Scale Factor</b>	0.999957765		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW corner rock wall	210	6.86	22.5
<b>MK # 2</b>	NE corner rock wall	136	15.70	51.5
<b>MK # 3</b>	Hotel sign base rock	046	33.83	111.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> W H Phillips <b>Ref Mon # 3</b> ARFY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 57 48.0236256
<b>Longitude</b>	93 9 12.8886228
<b>Ellipsoid Height (M):</b>	632.020
<b>Geoid Height (M):</b>	-28.042

Location Description
To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.20 miles to the station on the left in front of an old hotel / restaurant complex. 145 feet E of centerline of driveway leading to a water tower. 39 feet SE of centerline of SR-7. 6 feet SW of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018A - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

<b>AZ Mark Station</b>	510018
<b>Geodetic Azimuth</b>	31 55 29
<b>Grid Azimuth</b>	32 35 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510020	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090221
--------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,072.8050	
<b>Easting (M)</b>	298,222.3900	
<b>Elevation (M)*</b>	320.144	
<b>Northing (SFT)</b>	643,282.1944	
<b>Easting (SFT)</b>	978,417.9579	
<b>Elevation (SFT)*</b>	1,050.339	

  

<b>Convergence Angle</b>	0	39	27.6352001
<b>Scale Factor</b>	0.999975641		
<b>Elevation Adjust. Factor</b>	0.9999497615		
<b>Combined Adjust. Factor</b>	0.9999254037		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF THE NORTH END OF THE BUFFALO RIVER BRIDGE AND STATE HIGHWAY 7, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 2.75 MILES TO TO THE STATION ON THE RIGHT JUST SOUTH OF A GRAVEL ROAD. 25 FEET EAST OF THE CENTER OF THE ROAD AND 1.50 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020 2003" ON TOP OF A 0.50 METER ION ROD DRIVEN .02 METERS SUBSURFACE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    050032, 050032A</p> <p><b>Ref Mon # 2</b>    510009, 510009A</p> <p><b>Ref Mon # 3</b>    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran from 2nd NGS marks N 18 &amp; TT 107 TX by crew S5102 in Nov. 2007.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510020A	<b>Date Monumented</b> 10/30/2003	<b>Monumented By</b> AHTD	<b>County</b> NEWTON	<b>Route</b> 7	<b>Job Number:</b> 090221
---------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,359.0409	
<b>Easting (M)</b>	298,025.0450	
<b>Elevation (M)*</b>	324.285	
<b>Northing (SFT)</b>	644,221.2867	
<b>Easting (SFT)</b>	977,770.5018	
<b>Elevation (SFT)*</b>	1,063.926	

  

<b>Convergence Angle</b>	0	39	32.3021782
<b>Scale Factor</b>	0.999976040		
<b>Elevation Adjust. Factor</b>	0.9999491116		
<b>Combined Adjust. Factor</b>	0.9999251529		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE NORTH END OF THE BUFFALO RIVER BRIDGE, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 FOR 3.05 MILES TO THE STATION ON THE LEFT, NORTHWEST 21.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    510009, 510009A</p> <p><b>Ref Mon # 2</b>    050032, 050032A</p> <p><b>Ref Mon # 3</b>    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran from 2nd NGS marks N 18 &amp; TT 107 TX by crew S5102 in Nov. 2007.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510020X	<b>Date Monumented</b> 2/18/2009	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 7	<b>Job Number:</b> 090157
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	184,815.4329	
<b>Easting (M)</b>	293,553.9580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	606,348.6328	
<b>Easting (SFT)</b>	963,101.6105	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	13.0862124
<b>Scale Factor</b>	0.999961371		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	South end of guardrail	159	5.94	19.5
<b>MK # 2</b>	Manhole access	201	7.32	24.0
<b>MK # 3</b>	Corner concrete ditch	300	17.07	56.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	This station replaced 510019 which was in this area but was destroyed.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> W H Phillips	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510021	<b>Date Monumented</b> 3/8/2011	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 103	<b>Job Number:</b> 090304
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,629.8930	
<b>Easting (M)</b>	274,480.3680	
<b>Elevation (M)*</b>	550.432	
<b>Northing (SFT)</b>	635,267.4073	
<b>Easting (SFT)</b>	900,524.3407	
<b>Elevation (SFT)*</b>	1,805.876	

  

<b>Convergence Angle</b>	0	48	39.0708318
<b>Scale Factor</b>	0.999971884		
<b>Elevation Adjust. Factor</b>	0.9999136267		
<b>Combined Adjust. Factor</b>	0.9998855132		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	278	4.27	14.0
MK # 2	36" CMP culvert	144	21.34	70.0
MK # 3				

  

<b>AZ Mark Station</b>	510021A
<b>Geodetic Azimuth</b>	275 43 18
<b>Grid Azimuth</b>	276 31 48

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 510021A	<b>Date Monumented</b> 3/8/2011	<b>Monumented By</b> AHTD	<b>County</b> Newton	<b>Route</b> 103	<b>Job Number:</b> 090304
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,583.5549	
<b>Easting (M)</b>	274,885.1930	
<b>Elevation (M)*</b>	578.533	
<b>Northing (SFT)</b>	635,115.3797	
<b>Easting (SFT)</b>	901,852.5040	
<b>Elevation (SFT)*</b>	1,898.070	

  

<b>Convergence Angle</b>	0	48	29.6423167
<b>Scale Factor</b>	0.999971830		
<b>Elevation Adjust. Factor</b>	0.9999092175		
<b>Combined Adjust. Factor</b>	0.9998810501		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of the Newton and Carroll county lines on Highway 103, go southwest on Highway 103 in Newton county for 4.8 miles to the station on the right, 22 feet south of the centerline of Highway 103, 17 feet north of a witness post, and 17 feet north of a fence. The station mark is a standard 2 1/2" cap stamped "510021A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest Fence Corner	252	26.82	88.0
MK # 2	18" by 38" arched cmp w/ Flared end section	75	65.23	214.0
MK # 3				

  

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>W H Phillips, P 277</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY, ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	W H Phillips, P 277	Ref Mon # 2	ARFY, ARBT	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Area Reference Monuments (used for Processing)										
Ref Mon # 1	W H Phillips, P 277									
Ref Mon # 2	ARFY, ARBT									
Ref Mon # 3	ARHR									
Comments										

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520001	<b>Date Monumented</b> 6/21/1995	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 57	<b>Job Number:</b> 070046
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	483,065.8701	
<b>Easting (M)</b>	300,579.7480	
<b>Elevation (M)*</b>	75.456	
<b>Northing (SFT)</b>	1,584,858.6088	
<b>Easting (SFT)</b>	986,152.0566	
<b>Elevation (SFT)*</b>	247.559	

  

<b>Convergence Angle</b>	0	35	53.6642607
<b>Scale Factor</b>	0.999977263		
<b>Elevation Adjust. Factor</b>	0.9999881586		
<b>Combined Adjust. Factor</b>	0.9999654219		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	230	23.40	76.8
MK # 2	TELEPHONE JUNCTION BOX	163	28.15	92.4
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BEECH 1950</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 204 1960</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	BEECH 1950	Ref Mon # 2	K 204 1960	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>JOB NO. 070068 USES SAME S.A.F.</td> </tr> </table>	Comments	JOB NO. 070068 USES SAME S.A.F.
Ref Mon # 1	BEECH 1950								
Ref Mon # 2	K 204 1960								
Ref Mon # 3	NONE								
Comments									
JOB NO. 070068 USES SAME S.A.F.									

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 24 39.2828220
<b>Longitude</b>	93 4 7.9544352
<b>Ellipsoid Height (M):</b>	48.445
<b>Geoid Height (M):</b>	-27.011

Location Description
<p>FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.15 KM (0.09 MILES) CROSSING OVER A RAILROAD OVERPASS TO THE STATION ON THE LEFT IN A SMALL PARKING AREA. THE STATION IS 28.20 METERS NORTH OF THE CENTER OF HWY. 57, 32.0 METERS WEST OF THE CENTER OF CANNON STREET AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	520001A
<b>Geodetic Azimuth</b>	36 30 55.31902
<b>Grid Azimuth</b>	37 06 48.94561

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520001A	<b>Date Monumented</b> 6/21/1995	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> N/A	<b>Job Number:</b> 070046
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	483,354.4911	
<b>Easting (M)</b>	300,798.1390	
<b>Elevation (M)*</b>	69.784	
<b>Northing (SFT)</b>	1,585,805.5262	
<b>Easting (SFT)</b>	986,868.5610	
<b>Elevation (SFT)*</b>	228.950	

  

<b>Convergence Angle</b>	0	35	48.9989039
<b>Scale Factor</b>	0.999976770		
<b>Elevation Adjust. Factor</b>	0.9999890487		
<b>Combined Adjust. Factor</b>	0.9999658190		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.16 KM (0.10 MILES) TO THE JCT. WITH "NORTH CANNON STREET" ON THE LEFT, TURN LEFT AND NORTH ON "CANNON STREET" AND GO 0.096 KM (0.06 MILES) TO THE JCT. WITH "EAST CHERT STREET" ON THE RIGHT AND A GRAVEL ENTRANCE ON THE LEFT, TURN LEFT ON THE GRAVEL ROAD AND TRAVEL PARALLEL TO THE RAILROAD TRACKS FOR 0.25 KM (0.16 MILES) TO THE STATION ON THE LEFT BETWEEN THE GRAVEL ROAD AND THE RAILROAD TRACKS. THE STATION IS 6.60 METERS SOUTHEAST OF THE SOUTHERN MOST RAIL OF THE SOUTHERN MOST TRACK, 28.4 METERS SOUTH OF THE SOUTHEAST END OF A RAILROAD BRIDGE RETAINING WALL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BEECH 1950</p> <p>Ref Mon # 2    K 204 1960</p> <p>Ref Mon # 3    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>JOB NO. 070068 USES SAME S.A.F.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520002	<b>Date Monumented</b> 6/21/1995	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 278	<b>Job Number:</b> 070200, 070068
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 500,780.0012		<b>Latitude</b> 33 34 20.4300048
<b>Easting (M)</b> 320,904.6890		<b>Longitude</b> 92 51 7.0459488
<b>Elevation (M)*</b> 38.859		<b>Ellipsoid Height (M):</b> 12.666
<b>Northing (SFT)</b> 1,642,975.7206		<b>Geoid Height (M):</b> -26.193
<b>Easting (SFT)</b> 1,052,834.8005		
<b>Elevation (SFT)*</b> 127.490		

  

<b>Convergence Angle</b> 0 28 36.5970536	<b>Scale Factor</b> 0.999950780	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999939018	<b>Combined Adjust. Factor</b> 0.9999446821	<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN AT A SOUTHWEST ANGLE FROM THE INTERSECTION. THE STATION IS 13.10 METERS SOUTH OF THE SOUTH EDGE OF THE ASPHALT EASTBOUND LANES OF U.S. HIGHWAY 278, 55.60 METERS WEST OF THE CENTER OF "CASH ROAD", AND 0.93 METERS NORTH OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY APPLYING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	2" CHAIN LINK FENCE POST	284	3.90	12.8	520002A
MK # 2	2" CHAIN LINK FENCE POST	160	3.10	10.2	327 19 47
MK # 3					327 48 23

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Magnolia 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD Hope 1</td> </tr> </table>	Ref Mon # 1	S 197	Ref Mon # 2	Magnolia 2	Ref Mon # 3	AHTD Hope 1	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	S 197						
Ref Mon # 2	Magnolia 2						
Ref Mon # 3	AHTD Hope 1						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520002A	<b>Date Monumented</b> 6/21/1995	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 278	<b>Job Number:</b> 070200, 070068
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	501,070.1512	
<b>Easting (M)</b>	320,722.0170	
<b>Elevation (M)*</b>	38.664	
<b>Northing (SFT)</b>	1,643,927.6544	
<b>Easting (SFT)</b>	1,052,235.4841	
<b>Elevation (SFT)*</b>	126.850	

  

<b>Convergence Angle</b>	0	28	40.6139091
<b>Scale Factor</b>	0.999950417		
<b>Elevation Adjust. Factor</b>	0.9999939324		
<b>Combined Adjust. Factor</b>	0.9999443497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THIS STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN, GO WEST ON U.S. HIGHWAY 278 0.24 MILES TO THE STATION ON THE RIGHT IN FRONT OF "BROOKSHIRES" GROCERY STORE. THE STATION IS 20.0 METERS NORTH OF THE CENTERLINE OF THE WEST BOUND LANES OF U.S. HIGHWAY 278, 76.70 METERS WEST OF AN ACCESS ROAD TO THE GROCERY STORE AND 0.94 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT USING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					520002
MK # 2						147 19 43
MK # 3						147 48 23

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520003	<b>Date Monumented</b> 4/22/2002	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070200
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,084.7602	
<b>Easting (M)</b>	320,448.0240	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,637,413.9174	
<b>Easting (SFT)</b>	1,051,336.5587	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	46.1996479
<b>Scale Factor</b>	0.999952956		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	REINFORCED CONCRETE PIPE	222	30.00	98.4
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	35	25.40	83.3
<b>MK # 3</b>	LIGHT POLE	2	26.00	85.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> S 197	
<b>Ref Mon # 2</b> Magnolia 2	
<b>Ref Mon # 3</b> AHTD Hope 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 33 25.2824184
<b>Longitude</b>	92 51 24.2029152
<b>Ellipsoid Height (M):</b>	11.846
<b>Geoid Height (M):</b>	-26.191

Location Description
<p>TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.78 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 10.00 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ROAD, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520003A	<b>Date Monumented</b> 4/22/2002	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070200
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	498,681.6882	
<b>Easting (M)</b>	320,034.1240	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,636,091.5054	
<b>Easting (SFT)</b>	1,049,978.6218	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	55.1068767
<b>Scale Factor</b>	0.999953487		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	49	10.60	34.8
MK # 2	POWER POLE	225	22.60	74.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 S 197	
Ref Mon # 2 Magnolia 2	
Ref Mon # 3 AHTD Hope 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 33 12.0868488
<b>Longitude</b>	92 51 40.1174712
<b>Ellipsoid Height (M):</b>	16.133
<b>Geoid Height (M):</b>	-26.192

Location Description
<p>TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.39 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520004	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,411.1535	
<b>Easting (M)</b>	296,026.6959	
<b>Elevation (M)*</b>	69.962	
<b>Northing (SFT)</b>	1,585,991.4261	
<b>Easting (SFT)</b>	971,214.2515	
<b>Elevation (SFT)*</b>	229.534	

  

<b>Convergence Angle</b>	0	37	32.3675205
<b>Scale Factor</b>	0.999976760		
<b>Elevation Adjust. Factor</b>	0.9999890208		
<b>Combined Adjust. Factor</b>	0.9999657811		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	310	7.92	26.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.         </td> </tr> </table>	Comments	Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.
Comments			
Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, GO SOUTH ON HIGHWAY 79 2.95 MILES TO THE STATION MARK ON THE RIGHT, WEST 28.0 FEET OF CENTERLINE OF GRAVEL DRIVE, EAST 64.0 FEET OF COUNTY LINE, NORTH 40.0 FEET OF CENTERLINE OF HIGHWAY 79, SOUTH 29.0 FEET FROM WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520004 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	520004A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520004A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,446.5308	
<b>Easting (M)</b>	296,498.5719	
<b>Elevation (M)*</b>	60.177	
<b>Northing (SFT)</b>	1,586,107.4931	
<b>Easting (SFT)</b>	972,762.3980	
<b>Elevation (SFT)*</b>	197.431	

  

<b>Convergence Angle</b>	0	37	22.1544357
<b>Scale Factor</b>	0.999976692		
<b>Elevation Adjust. Factor</b>	0.9999905564		
<b>Combined Adjust. Factor</b>	0.9999672486		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRICK AND FRAME HOUSE	187	23.47	77.0
MK # 2	NORTHWEST CORNER CONCRETE PAD	145	13.41	44.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	3rd Order - Digital
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	33 24 50.2264224
<b>Longitude</b>	93 6 46.0599336
<b>Ellipsoid Height (M):</b>	33.856
<b>Geoid Height (M):</b>	-26.322

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, GO SOUTH ON HIGHWAY 79 2.65 MILES TO THE STATION MARK ON THE LEFT, EAST 58.0 FEET OF CENTERLINE OF GRAVEL DRIVE, SOUTH 40.0 FEET OF CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520004A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	520004
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520005	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,178.1667	
<b>Easting (M)</b>	300,557.9784	
<b>Elevation (M)*</b>	75.824	
<b>Northing (SFT)</b>	1,585,227.0352	
<b>Easting (SFT)</b>	986,080.6341	
<b>Elevation (SFT)*</b>	248.766	

  

<b>Convergence Angle</b>	0	35	54.1612083
<b>Scale Factor</b>	0.999977073		
<b>Elevation Adjust. Factor</b>	0.9999881009		
<b>Combined Adjust. Factor</b>	0.9999651742		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK IS LOCATED AT THE INTERSECTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, SOUTHWEST 109.0 FEET FROM CENTERLINE OF HIGHWAY 57S, SOUTHEAST 37.0 FEET FROM CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520005 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY AND LIGHT	125	21.43	70.3
MK # 2	NORTHWEST CORNER OF BRICK BUILDING	220	20.97	68.8
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<p>Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520005A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	483,580.2447	
<b>Easting (M)</b>	300,858.9730	
<b>Elevation (M)*</b>	67.296	
<b>Northing (SFT)</b>	1,586,546.1862	
<b>Easting (SFT)</b>	987,068.1473	
<b>Elevation (SFT)*</b>	220.786	

  

<b>Convergence Angle</b>	0	35	47.7320783
<b>Scale Factor</b>	0.999976388		
<b>Elevation Adjust. Factor</b>	0.9999894392		
<b>Combined Adjust. Factor</b>	0.9999658275		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	191	5.85	19.2
MK # 2	COMBINATION POLE WITH GUY	28	8.47	27.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520006	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,300.4582	
<b>Easting (M)</b>	303,071.5882	
<b>Elevation (M)*</b>	62.176	
<b>Northing (SFT)</b>	1,598,751.5866	
<b>Easting (SFT)</b>	994,327.3690	
<b>Elevation (SFT)*</b>	203.991	

  

<b>Convergence Angle</b>	0	35	0.6233878
<b>Scale Factor</b>	0.999970250		
<b>Elevation Adjust. Factor</b>	0.9999902426		
<b>Combined Adjust. Factor</b>	0.9999604929		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 3.1 MILES TO THE STATION MARK ON THE LEFT. NORTHWEST 42.5 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTHEAST 4.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520006 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 &amp; K 204 under Job #070366.         </td> </tr> </table>	Comments	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Comments			
Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520006A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	487,661.8340	
<b>Easting (M)</b>	303,495.8921	
<b>Elevation (M)*</b>	72.228	
<b>Northing (SFT)</b>	1,599,937.2004	
<b>Easting (SFT)</b>	995,719.4393	
<b>Elevation (SFT)*</b>	236.967	

  

<b>Convergence Angle</b>	0	34	51.5079548
<b>Scale Factor</b>	0.999969668		
<b>Elevation Adjust. Factor</b>	0.9999886653		
<b>Combined Adjust. Factor</b>	0.9999583336		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH LIGHT AND GUY	244	66.00	216.5
MK # 2	SOUTHEAST CORNER OF MT. ZINA BAPTIST CHURCH	303	70.60	231.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 &amp; K 204 under Job #070366.</td> </tr> </table>	Comments	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Comments			
Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.			

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 3.45 MILES TO THE STATION MARK ON THE LEFT. NORTH 41.0 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH 17.8 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520006A 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	520006
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520007	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	490,184.8783	
<b>Easting (M)</b>	306,996.1265	
<b>Elevation (M)*</b>	84.595	
<b>Northing (SFT)</b>	1,608,214.8882	
<b>Easting (SFT)</b>	1,007,203.1250	
<b>Elevation (SFT)*</b>	277.542	

  

<b>Convergence Angle</b>	0	33	36.1877044
<b>Scale Factor</b>	0.999965694		
<b>Elevation Adjust. Factor</b>	0.9999867244		
<b>Combined Adjust. Factor</b>	0.9999524189		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 6.2 MILES TO THE STATION MARK ON THE LEFT. NORTH 25.6 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH 37.3 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520007 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	315	12.80	42.0	520007A
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520007A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	490,320.1204	
<b>Easting (M)</b>	307,463.3104	
<b>Elevation (M)*</b>	84.225	
<b>Northing (SFT)</b>	1,608,658.5950	
<b>Easting (SFT)</b>	1,008,735.8775	
<b>Elevation (SFT)*</b>	276.328	

  

<b>Convergence Angle</b>	0	33	26.0889947
<b>Scale Factor</b>	0.999965482		
<b>Elevation Adjust. Factor</b>	0.9999867826		
<b>Combined Adjust. Factor</b>	0.9999522650		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	57	21.95	72.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520008	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	492,051.9298	
<b>Easting (M)</b>	311,501.9489	
<b>Elevation (M)*</b>	81.010	
<b>Northing (SFT)</b>	1,614,340.3730	
<b>Easting (SFT)</b>	1,021,985.9773	
<b>Elevation (SFT)*</b>	265.779	

  

<b>Convergence Angle</b>	0	31	58.8903841
<b>Scale Factor</b>	0.999962831		
<b>Elevation Adjust. Factor</b>	0.9999872871		
<b>Combined Adjust. Factor</b>	0.9999501186		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 9.3 MILES TO THE STATION MARK ON THE LEFT. NORTH WEST 44 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH EAST 1.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520008 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 &amp; K 204 under Job #070366.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 520008A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070366
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	492,258.2192	
<b>Easting (M)</b>	311,847.4356	
<b>Elevation (M)*</b>	77.320	
<b>Northing (SFT)</b>	1,615,017.1742	
<b>Easting (SFT)</b>	1,023,119.4616	
<b>Elevation (SFT)*</b>	253.676	

  

<b>Convergence Angle</b>	0	31	51.4411251
<b>Scale Factor</b>	0.999962522		
<b>Elevation Adjust. Factor</b>	0.9999878660		
<b>Combined Adjust. Factor</b>	0.9999503885		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 9.55 MILES TO THE STATION MARK ON THE RIGHT.SOUTH EAST 47 FEET FROM CENTERLINE OF HIGHWAY 79, NORTH WEST 1.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520008A 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	520008
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530001	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80025
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	77,149.2941	
<b>Easting (M)</b>	304,379.3150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	253,113.9757	
<b>Easting (SFT)</b>	998,617.8026	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	36	34.9802773
<b>Scale Factor</b>	0.999983390		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEGRAPH POLE	27	23.43	76.9
MK # 2	NBC IN POWER POLE	230	28.32	92.9
MK # 3	NBC IN R/R CROSSING SIGN POLE	290	20.20	66.3

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>JEANPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	JEANPORT	Ref Mon # 3	NONE	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91530001</td> </tr> </table>	Comments	OLD PN: 91530001
Ref Mon # 1	RUSSPORT								
Ref Mon # 2	JEANPORT								
Ref Mon # 3	NONE								
Comments									
OLD PN: 91530001									

  

Location Description
AT CASA, TURN NORTH AT THE MAIN INTERSECTION AND GO TO THE R/R CROSSING AND THE STATION ON RIGHT. THE STATION IS 40 FEET EAST OF THE CENTERLINE OF THE STREET, 17 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 115 FEET NORTH OF AN EAST-WEST STREET AND 1.70 FEET SOUTH OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530001A	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80025
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	77,181.5140	
<b>Easting (M)</b>	304,694.4410	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	253,219.6838	
<b>Easting (SFT)</b>	999,651.6785	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	36	27.7549252
<b>Scale Factor</b>	0.999983336		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TELEGRAPH POLE	280	29.16	95.7
<b>MK # 2</b>	NBC IN R/R CROSSING SIGN	24	15.19	49.8
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91530001A</td> </tr> </table>	Comments	OLD PN: 91530001A
Comments			
OLD PN: 91530001A			

  

Location Description	
AT CASA, TURN NORTH AT THE MAIN INTERSECTION AND GO TO THE FIRST STREET ON THE RIGHT, TURN AND GO EAST 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 114 FEET NORTH OF CENTERLINE OF THE STREET, 15 FEET SOUTH OF THE R/R TRACK, 45 FEET WEST OF A NORTH-SOUTH STREET AND 1.6 FEET SOUTH OF A WITNESS POST.	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 1 28.0917588
<b>Longitude</b>	93 2 39.6807072
<b>Ellipsoid Height (M):</b>	80.283
<b>Geoid Height (M):</b>	-29.390

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530002	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80025
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	76,962.5830	
<b>Easting (M)</b>	308,188.7940	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	252,501.4077	
<b>Easting (SFT)</b>	1,011,116.0683	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	35	7.4958135
<b>Scale Factor</b>	0.999983615		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE YELL AND PERRY COUNTY LINE, GO EAST ON HWY. 10 FOR 5.90 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FEET SOUTH OF THE CENTERLINE OF HWY. 10, 125 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 215 FEET SOUTHWEST OF A CROSSDRAIN, 135 FEET NORTHEAST OF THE NORTHEAST CORNER OF A BRICK HOUSE AND 1.75 FEET NORTH OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE POST	93	17.70	58.1
<b>MK # 2</b>	NBC IN POWER POLE	36	30.42	99.8
<b>MK # 3</b>	NBC IN POWER POLE	266	90.76	297.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> NONE	OLD PN: 91530002

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530002A	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80025
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	76,947.6131	
<b>Easting (M)</b>	308,475.6720	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	252,452.2940	
<b>Easting (SFT)</b>	1,012,057.2672	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	35	0.9075809
<b>Scale Factor</b>	0.999983633		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TOP OF GATE POST	282	48.17	158.0
<b>MK # 2</b>	NBC IN TOP OF BRACE POST	24	35.20	115.5
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>JEANPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	JEANPORT	Ref Mon # 3	NONE	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91530002A</td> </tr> </table>	Comments	OLD PN: 91530002A
Ref Mon # 1	RUSSPORT								
Ref Mon # 2	JEANPORT								
Ref Mon # 3	NONE								
Comments									
OLD PN: 91530002A									

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 1 21.7776180
<b>Longitude</b>	93 0 10.4325984
<b>Ellipsoid Height (M):</b>	86.531
<b>Geoid Height (M):</b>	-29.312

Location Description
FROM THE YELL AND PERRY COUNTY LINE, GO EAST 6.08 MILES TO THE STATION ON RIGHT. THE STATION IS 121 FEET SOUTH CENTERLINE OF HWY. 10, 213 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 112 FEET SOUTHWEST OF THE SOUTH END OF AN 18" RCP CROSSDRAIN, 165 FEET SOUTHEAST OF A FIELD ENTRANCE AND 80.69 FEET SOUTH OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530003	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80025
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	78,239.8650	
<b>Easting (M)</b>	314,516.9130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	256,691.9571	
<b>Easting (SFT)</b>	1,031,877.5721	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	42.5239839
<b>Scale Factor</b>	0.999981588		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
AT THE JCT. OF HWY. 10 AND HWY. 324 THE STATION IS 41 FEET SOUTH OF CENTERLINE OF HWY. 10, 147 FEET NORTHEAST OF THE NORTHEAST CORNER OF A WHITE ONE STORY FRAME HOUSE, 15 FEET NORTHEAST OF A FENCE CORNER AND 2.3 FEET NORTH OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	91	7.11	23.3
MK # 2	NBC IN COMBINATION POLE	269	9.52	31.2
MK # 3	NBC IN COMBINATION POLE	336	25.30	83.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="RUSSPORT"/> <b>Ref Mon # 2</b> <input type="text" value="JEANPORT"/> <b>Ref Mon # 3</b> <input type="text" value="NONE"/>	OLD PN: 91530003

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530003A	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 324	<b>Job Number:</b> R80025
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	78,512.4451	
<b>Easting (M)</b>	314,541.3080	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	257,586.2470	
<b>Easting (SFT)</b>	1,031,957.6080	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	42.0234791
<b>Scale Factor</b>	0.999981181		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN GATE POST	189	7.05	23.1
<b>MK # 2</b>	NBC IN GATE POST	198	21.71	71.2
<b>MK # 3</b>	NBC IN GATE POST	270	26.23	86.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	OLD PN: 91530003A
<b>Ref Mon # 2</b> JEANPORT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 2 14.4928176
<b>Longitude</b>	92 56 11.7587544
<b>Ellipsoid Height (M):</b>	91.919
<b>Geoid Height (M):</b>	-29.217

Location Description
<p>FROM THE JCT. OF HWY. 10 AND HWY. 324, GO NORTH ON HWY. 324 TO A R/R CROSSING, THEN NORTH 130 FEET TO THE STATION ON THE RIGHT. THE STATION IS 46 FEET EAST OF THE CENTERLINE OF HWY. 324, 35 FEET NORTHEAST OF A FIELD ENTRANCE, 376 FEET SOUTHWEST OF A CROSSDRAIN AND 4.92 FEET EAST OF A WITNESS POST.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530004A	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80026
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	78,204.2581	
<b>Easting (M)</b>	318,143.2710	
<b>Elevation (M)*</b>	119.601	
<b>Northing (SFT)</b>	256,575.1368	
<b>Easting (SFT)</b>	1,043,775.0483	
<b>Elevation (SFT)*</b>	392.391	

  

<b>Convergence Angle</b>	0	31	19.2671794
<b>Scale Factor</b>	0.999981591		
<b>Elevation Adjust. Factor</b>	0.9999812311		
<b>Combined Adjust. Factor</b>	0.9999628224		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TEN INCH PINE TREE	205	18.20	59.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	171	9.90	32.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> 91530003 AHTD	<b>Comments</b>  Cross Reference Job: R80025 HORIZONTAL DISTANCE BETWEEN 530004 & 530004A BY E.D.M. = 375.546 METERS
--	--

  

Vertical Determined By:		LEVEL - Unkown Quality	
Elevation Datum:		NGVD 29	
Geoid Datum:			
Latitude		35	2
Longitude		92	53
Ellipsoid Height (M):		90.463	
Geoid Height (M):		-29.138	

  

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN ADONA GO WEST ON HWY-10 FOR 0.048 KM.( 0.03 MI. ) TO A GRAVEL ROAD LEADING SOUTH, TURN LEFT AND SOUTH ON GRAVEL ROAD FOR 0.32 KM. ( 0.20 MI. ) TO THE STATION ON THE RIGHT, 7.50 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 9.26 METERS NORTH OF A WITNESS POST SET BESIDE A COMBINATION POLE. THE STATION MARK IS A STANDARD CAP STAMPED "530004A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530005	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> R80026
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 79,301.8221		<b>Latitude</b> 35 2 42.5831388
<b>Easting (M)</b> 322,978.7680		<b>Longitude</b> 92 50 39.1443756
<b>Elevation (M)*</b> 101.538		<b>Ellipsoid Height (M):</b> 72.481
		<b>Geoid Height (M):</b> -29.057

  

<b>Northing (SFT)</b> 260,176.0613		<b>Location Description</b>
<b>Easting (SFT)</b> 1,059,639.5080		<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-10 &amp; HWY-9 IN THE SMALL TOWN OF PERRY GO WEST ON HWY-10 FOR 4.79 KM. (2.98 MI.) TO THE STATION ON THE RIGHT, 16.0 METERS NORTH OF THE CENTERLINE OF HWY-10, 18.30 METERS WEST OF A GRAVEL ROAD LEADING NORTH, 7.0 METERS SOUTH OF THE SOUTH RAIL OF THE RAILROAD TRACK AND 4.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 333.129		

  

<b>Convergence Angle</b>	0	29	28.4754621
<b>Scale Factor</b>	0.999979900		
<b>Elevation Adjust. Factor</b>	0.9999840656		
<b>Combined Adjust. Factor</b>	0.9999639660		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOUR INCH METAL RAIL ROAD XING SIGN POST	75	23.00	75.5
MK # 2	POWER POLE	93	28.40	93.2
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> 91530003 AHTD	Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530005 & 530005A = 514.004 METERS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530006	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> R80026
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 79,659.1961		<b>Latitude</b> 35 2 55.4440560
<b>Easting (M)</b> 327,666.1250		<b>Longitude</b> 92 47 34.3099752
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 61.115
		<b>Geoid Height (M):</b> -28.966

  

<b>Northing (SFT)</b> 261,348.5459		<b>Location Description</b>
<b>Easting (SFT)</b> 1,075,017.9451		<p>TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 FOR 0.08 KM.(0.05 MI.) TO THE JUNCTION OF HWY-10 &amp; HWY-9, THE STATION IS NORTHEAST OF THIS JUNCTION ACROSS HWY-9 AND 7.60 METERS SOUTH OF THE SOUTH RAIL OF A SPUR TRACK, 19.00 METERS EAST OF THE CENTERLINE OF HWY-9, 36.00 METERS NORTH OF THE CENTER OF CHOCTAW STREET, 32.50 METERS NORTHEAST OF F.A.P. MARKER # 69 AND 0.59 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530006" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 27 40.9204857		
<b>Scale Factor</b> 0.999979320		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD SIGNAL LIGHT POLE	264	13.96	45.8
MK # 2	NORTHWEST CORNER OF A CHAIN LINK FENCE	122	22.40	73.5
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> 91530003 AHTD	Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530006 & 530006A = 556.246

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530006A	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> R80026
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 79,105.5721		<b>Latitude</b> 35 2 37.4653680
<b>Easting (M)</b> 327,612.3590		<b>Longitude</b> 92 47 36.2554692
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b> 69.206
		<b>Geoid Height (M):</b> -28.958

  

<b>Northing (SFT)</b> 259,532.1978		<b>Location Description</b>
<b>Easting (SFT)</b> 1,074,841.5478		<p>TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 TO THE JUNCTION WITH HWY-9, GO RIGHT (SOUTH) ON HWY-9 FOR 0.49 KM. ( 0.31 MI. ) TO THE STATION ON THE RIGHT. 11.20 METERS WEST OF THE CENTERLINE OF HWY-9, 15.20 METERS NORTH OF THE CENTER OF SIXTH AVENUE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530006A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b>		
<b>Convergence Angle</b> 0 27 42.0525670		
<b>Scale Factor</b> 0.999980132		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	530006
			Meters	Feet		
MK # 1	COMBINATION POLE	184	23.00	75.5	<b>Geodetic Azimuth</b>	5 05 07.21701
MK # 2	CENTER OF BOX CULVERT HEADWALL	40	10.00	32.8	<b>Grid Azimuth</b>	5 32 49.262115
MK # 3	TEN INCH HOLLY BUSH	285	24.00	78.7		

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	<p>Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. FROM 530006 TO 530006A = 556.246 METERS</p>
Ref Mon # 2 JEANPORT	
Ref Mon # 3 91530003 AHTD	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530007	<b>Date Monumented</b> 11/7/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> 080051
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	60,937.5620				
<b>Easting (M)</b>	329,942.1990				
<b>Elevation (M)*</b>	121.981				
<b>Northing (SFT)</b>	199,925.9847				
<b>Easting (SFT)</b>	1,082,485.3646				
<b>Elevation (SFT)*</b>	400.199				

  

<b>Convergence Angle</b>	0	26	45.3141138
<b>Scale Factor</b>	1.000010886		
<b>Elevation Adjust. Factor</b>	0.9999808576		
<b>Combined Adjust. Factor</b>	0.9999917434		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	10" PINE TREE	97	19.30	63.3
<b>MK # 2</b>	6" WILLOW OAK	180	22.70	74.5
<b>MK # 3</b>	4" SHRUB	282	16.50	54.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SALIPORT	
<b>Ref Mon # 2</b> 530006	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 52 48.5275260
<b>Longitude</b>	92 45 58.7498184
<b>Ellipsoid Height (M):</b>	93.459
<b>Geoid Height (M):</b>	-28.522

Location Description
<p>FROM THE JCT. OF HWY. 9 AND HWY. 10 IN WILLIAMS JUNCTION SOUTH OF PERRYVILLE, GO EAST ON HWY. 10 FOR 0.69 KM (0.43 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS NORTH OF THE CENTERLINE OF HWY. 10 AND 1.13 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530007A	<b>Date Monumented</b> 11/7/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 10	<b>Job Number:</b> 080051
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	60,746.6990	
<b>Easting (M)</b>	330,657.6640	
<b>Elevation (M)*</b>	124.069	
<b>Northing (SFT)</b>	199,299.7950	
<b>Easting (SFT)</b>	1,084,832.6860	
<b>Elevation (SFT)*</b>	407.050	

  

<b>Convergence Angle</b>	0	26	28.8868137
<b>Scale Factor</b>	1.000011241		
<b>Elevation Adjust. Factor</b>	0.9999805299		
<b>Combined Adjust. Factor</b>	0.9999917707		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	4" STEEL GATE POST	270	6.55	21.5
<b>MK # 2</b>	CENTER OF CONCRETE HEADWALL	310	8.00	26.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SALIPORT	
<b>Ref Mon # 2</b> 530006	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 52 42.5139564
<b>Longitude</b>	92 45 30.5193240
<b>Ellipsoid Height (M):</b>	95.565
<b>Geoid Height (M):</b>	-28.504

Location Description
<p>FROM THE JCT. OF HWY. 9 AND HWY. 10 IN WILLIAMS JUNCTION SOUTH OF PERRYVILLE, GO EAST ON HWY. 10 FOR 1.40 KM (0.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.45 METERS SOUTH OF THE CENTERLINE OF HWY. 10, 9.70 METERS EAST OF A FIELD ENTRANCE AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	530007
<b>Geodetic Azimuth</b>	284 29 43.56929
<b>Grid Azimuth</b>	284 56 12.5980

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530009	<b>Date Monumented</b> 11/7/1994	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 080051
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 65,733.2511		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 326,589.7810		<b>Latitude</b> 34 55 23.2761432
<b>Elevation (M)*</b> 201.171		<b>Longitude</b> 92 48 12.2971248
<b>Northing (SFT)</b> 215,659.8413		<b>Ellipsoid Height (M):</b> 172.465
<b>Easting (SFT)</b> 1,071,486.6398		<b>Geoid Height (M):</b> -28.706
<b>Elevation (SFT)*</b> 660.009		

  

<b>Convergence Angle</b> 0 28 3.0251750	<b>Location Description</b> FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 1.000002025	
<b>Elevation Adjust. Factor</b> 0.9999684307	
<b>Combined Adjust. Factor</b> 0.9999704556	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	8" WOODEN POST	253	4.60	15.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 SALIPOST	
Ref Mon # 2 530006	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530010	<b>Date Monumented</b> 3/11/1998	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 60	<b>Job Number:</b> 80122, 080676
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	82,648.9467	0.0020
<b>Easting (M)</b>	350,383.3942	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	271,157.4193	
<b>Easting (SFT)</b>	1,149,549.5191	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0 18	59.6820300
<b>Scale Factor</b>	0.999974854	
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	4	37.4646180
<b>Longitude</b>	92	32	38.5569564
<b>Ellipsoid Height:</b>	56.144		
<b>Grid Northing (Meters)</b>	82,648.9501		
<b>Grid Easting (Meters)</b>	350,383.3700		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL LIGHT POLE	354	2.20	7.2
<b>MK # 2</b>	METAL SUPPORT POST TO TRASH CAN	279	8.00	26.2
<b>MK # 3</b>	0.65 METER ELM TREE	143	24.80	81.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR (ROCKPORT)	SUPERCEDED GEOID HT. WAS -27.963m
<b>Ref Mon # 2</b> ARRV (PJTC CAMPUS)	
<b>Ref Mon # 3</b> ARSC (EARNHART HALE)	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 4 37.4645136
<b>Longitude</b>	92 32 38.5560024
<b>Ellipsoid Height (M):</b>	55.965 0.0080
<b>Geoid Height (M):</b>	-28.111 0.0080

Location Description
<p>THE STATION IS LOCATED ABOUTH 8.6 KM (5.34 MI) WEST OF CONWAY ON THE WEST SIDE OF THE ARKANSAS RIVER IN THE TOAD SUCK PARK. THE STATION IS 68.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 7.750 METERS SOUTH OF THE EXTENDED CENTER OF A CONCRETE SIDEWALK, 3.650 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 1.320 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 530010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530011	<b>Date Monumented</b> 11/13/1998	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 8825
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	65,492.3530	
<b>Easting (M)</b>	326,783.6170	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	214,869.4948	
<b>Easting (SFT)</b>	1,072,122.5834	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	27	58.5364863
<b>Scale Factor</b>	1.000002456		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER FENCE POST	128	17.40	57.1
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	135	28.75	94.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1	
<b>Ref Mon # 2</b> RUSSPORT	
<b>Ref Mon # 3</b> PJTC CAMPUS	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 55 15.5104788
<b>Longitude</b>	92 48 4.5832644
<b>Ellipsoid Height (M):</b>	175.773
<b>Geoid Height (M):</b>	-27.923

Location Description
<p>FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.10 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHWAY 9 AND 2.60 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011 1998" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530011A	<b>Date Monumented</b> 11/13/1998	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 8825
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	65,717.4310
<b>Easting (M)</b>	326,590.5290
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	215,607.9382
<b>Easting (SFT)</b>	1,071,489.0939
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	28	3.0050687
<b>Scale Factor</b>	1.000002053		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 45.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 9, 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD LR1</p> <p>Ref Mon # 2    RUSSPORT</p> <p>Ref Mon # 3    PJTC CAMPUS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530012A	<b>Date Monumented</b> 11/13/1998	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 8825,080446
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-----------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	69,630.7587	0.0020			
<b>Easting (M)</b>	327,388.2179	0.0040			
<b>Elevation (M)*</b>	110.536				
<b>Northing (SFT)</b>	228,446.9142				
<b>Easting (SFT)</b>	1,074,106.1782				
<b>Elevation (SFT)*</b>	362.650				

  

<b>Convergence Angle</b>	0	27	45.4422330
<b>Scale Factor</b>	0.999995185		
<b>Elevation Adjust. Factor</b>	0.9999826536		
<b>Combined Adjust. Factor</b>	0.9999778387		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	57	29.9533320
<b>Longitude</b>	92	47	42.0812772
<b>Ellipsoid Height:</b>	82.451		
<b>Grid Northing (Meters)</b>	69,630.6440		
<b>Grid Easting (Meters)</b>	327,388.2010		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.55 METER WILLOW OAK	36	18.00	59.1
MK # 2	IN LINE BRACE POST	183	3.70	12.1
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412 **NOTE: STATIC RE-DONE BY S5112 ON THIS POINT & RAN DIGITAL LEVELS FROM GPS 530012 & HELD IT FIXED IN APRIL 2013 & UPDATED ELEV. FOR JOB #080446
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530013A	<b>Date Monumented</b> 11/13/1998	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 8825,080446
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	75,042.0641
<b>Easting (M)</b>	326,902.4010
<b>Elevation (M)*</b>	88.981
<b>Northing (SFT)</b>	246,200.5053
<b>Easting (SFT)</b>	1,072,512.2939
<b>Elevation (SFT)*</b>	291.932

  

<b>Convergence Angle</b>	0	27	57.5939941
<b>Scale Factor</b>	0.999986327		
<b>Elevation Adjust. Factor</b>	0.9999860362		
<b>Combined Adjust. Factor</b>	0.9999723634		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF HEADWALL	6	20.35	66.8
<b>MK # 2</b>	COMBINATION POLE	131	15.40	50.5
<b>MK # 3</b>	NORTHWEST CORNER OF MAC'S SPORTING GOODS	159	15.35	50.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD LR1	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412
<b>Ref Mon # 2</b> RUSSPORT	
<b>Ref Mon # 3</b> PJTC CAMPUS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530014	<b>Date Monumented</b> 9/3/2002	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 60	<b>Job Number:</b> 080256,080446
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> 		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> 		<b>Latitude</b> 
<b>Longitude</b> 		<b>Ellipsoid Height (M):</b> 
<b>Geoid Height (M):</b> 		<b>Geoid Height (M):</b> 

  

<b>Northing (M)</b>	<b>#Error</b>	
<b>Easting (M)</b>	<b>#Error</b>	
<b>Elevation (M)*</b>	96.907	

  

<b>Northing (SFT)</b>	<b>#Type!</b>	
<b>Easting (SFT)</b>	<b>#Type!</b>	
<b>Elevation (SFT)*</b>	317.936	

  

<b>Convergence Angle</b>	### ###	<b>#Error</b>
<b>Scale Factor</b>		<b>#Error</b>
<b>Elevation Adjust. Factor</b>	0.9999847924	
<b>Combined Adjust. Factor</b>	<b>#Type!</b>	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 113 ABOUT 2 MILES NORTH OF BIGELOW, GO WEST ON STATE HIGHWAY 60 FOR 0.20 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 60 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "530014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH A 101 PID NUMBER FG0413.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	79	11.50	37.7
MK # 2	SOUTHWEST CORNER BLUE STORAGE BUI	352	12.55	41.2
MK # 3				

  

<b>AZ Mark Station</b>	530014A
<b>Geodetic Azimuth</b>	269 13 56
<b>Grid Azimuth</b>	269 36 05

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PJTC CAMPUS	ELEVATION WAS RUN BY 3-WIRE LEVEL LOOP FROM NGS POINT A 101
Ref Mon # 2 HEBEPOR	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530014A	<b>Date Monumented</b> 9/3/2002	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 60	<b>Job Number:</b> 080256
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 PJTC CAMPUS	
Ref Mon # 2 HEBEPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530015	<b>Date Monumented</b> 2/6/2013	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> 7	<b>Job Number:</b> 080439
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	58,503.9008	0.0020	
<b>Easting (M)</b>	299,769.7065	0.0040	
<b>Elevation (M)*</b>	164.839		
<b>Northing (SFT)</b>	191,941.5479		
<b>Easting (SFT)</b>	983,494.4454		
<b>Elevation (SFT)*</b>	540.811		

  

<b>Convergence Angle</b>	0	38	16.0215177
<b>Scale Factor</b>	1.000016186		
<b>Elevation Adjust. Factor</b>	0.9999741320		
<b>Combined Adjust. Factor</b>	0.9999903176		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 2.6 MILES TO THE MARK ON THE LEFT, EAST 25' OF THE CENTERLINE OF THE HIGHWAY AND WEST 58.6' OF A WHITNESS POST. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530015" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    P777</p> <p><b>Ref Mon # 3</b>    ARCM, OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 &amp; A 104 USING DIGITAL LEVELS.                  **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530015A	<b>Date Monumented</b> 2/6/2013	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> 7	<b>Job Number:</b> 080439
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	59,150.6446 0.0020
<b>Easting (M)</b>	299,682.8558 0.0040
<b>Elevation (M)*</b>	153.961
<b>Northing (SFT)</b>	194,063.4065
<b>Easting (SFT)</b>	983,209.5027
<b>Elevation (SFT)*</b>	505.120

  

<b>Convergence Angle</b>	0 38 18.1759464
<b>Scale Factor</b>	1.000014911
<b>Elevation Adjust. Factor</b>	0.9999758391
<b>Combined Adjust. Factor</b>	0.9999907497

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
	Description	Azimuth	Distance
			Meters
<b>MK # 1</b>	COMBINATION POLE WITH 2 GUYS	305	11.58 38.0
<b>MK # 2</b>	WEST END OF WINONA FOREST SERVICE SI	163	16.15 53.0
<b>MK # 3</b>			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARCM, OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530016	<b>Date Monumented</b> 2/6/2013	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> 7	<b>Job Number:</b> 080439,080607
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	60,142.8230	0.0020			
<b>Easting (M)</b>	298,457.9471	0.0040			
<b>Elevation (M)*</b>	150.762				
<b>Northing (SFT)</b>	197,318.5785				
<b>Easting (SFT)</b>	979,190.7814				
<b>Elevation (SFT)*</b>	494.624				

  

<b>Convergence Angle</b>	0	38	46.4915043
<b>Scale Factor</b>	1.000012998		
<b>Elevation Adjust. Factor</b>	0.9999763411		
<b>Combined Adjust. Factor</b>	0.9999893388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	281	7.62	25.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARLR	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2: P777	
Ref Mon # 3: ARCM, OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 52 13.0019736
<b>Longitude</b>	93 6 38.1010320
<b>Ellipsoid Height (M):</b>	122.208 0.0040
<b>Geoid Height (M):</b>	-28.553 0.0000

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 1.2 MILES TO THE MARK ON THE RIGHT, WEST 23' OF THE CENTERLINE OF THE HIGHWAY, EAST 25.1' OF A WHITNESS POST, AND SOUTH 31' OF THE CENTERLINE OF HOLLIS TRAIL ROAD. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530016A	<b>Date Monumented</b> 2/6/2013	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> 7	<b>Job Number:</b> 080439,080607
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 60,772.3012	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 09
<b>Easting (M)</b> 298,450.2575	<b>0.0040</b>	<b>Latitude</b> 34 52 33.4244784
<b>Elevation (M)*</b> 154.014		<b>Longitude</b> 93 6 38.6833608
<b>Northing (SFT)</b> 199,383.7915		<b>Ellipsoid Height (M):</b> 125.435 0.0030
<b>Easting (SFT)</b> 979,165.5531		<b>Geoid Height (M):</b> -28.579 0.0000
<b>Elevation (SFT)*</b> 505.293		

  

<b>Convergence Angle</b> 0 38 46.8303610	
<b>Scale Factor</b> 1.000011780	
<b>Elevation Adjust. Factor</b> 0.9999758308	
<b>Combined Adjust. Factor</b> 0.9999876105	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A PLASTIC CULVERT	48	2.74	9.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARCM, OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530017	<b>Date Monumented</b> 5/16/2016	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> Perry	<b>Job Number:</b> 080507
--------------------------	-------------------------------------	------------------------------	------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	80,552.2250	0.0020	
<b>Easting (M)</b>	305,861.6609	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	264,278.4249		
<b>Easting (SFT)</b>	1,003,481.1325		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	36	1.7740777
<b>Scale Factor</b>	0.999978318		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	75	110.00	360.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARHP	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARLR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    3    17.8653204
<b>Longitude</b>	93    1    55.0323372
<b>Ellipsoid Height (M):</b>	83.104    0.0040
<b>Geoid Height (M):</b>	-28.901    0.0040

Location Description
<p>TO REACH STA FROM JCT OF SR-155 &amp; SR-247 NE OF CASA, GO S ON SR-155 0.8 MI TO STA ON RIGHT JUST PAST THE GRAVEL DW LEADING TO A HOME &amp; CHICKEN HOUSES. 18' N OF C/L. 65' W OF GRAVEL DW. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017 2016" SET ON TOP OF A 2' RBR AND DRIVEN EVEN WITH SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530017A	<b>Date Monumented</b> 5/16/2016	<b>Monumented By</b> AHTD	<b>County</b> Perry	<b>Route</b> Perry	<b>Job Number:</b> 080507
---------------------------	-------------------------------------	------------------------------	------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	80,565.0052	0.0020	
<b>Easting (M)</b>	305,394.7126	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	264,320.3546		
<b>Easting (SFT)</b>	1,001,949.1529		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	36	12.4992863
<b>Scale Factor</b>	0.999978307		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE END OF GUARD RAIL	271	60.00	196.9
MK # 2	WV	243	88.00	288.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARHP	Ref Mon # 2	ARFY	Ref Mon # 3	ARLR	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARHP						
Ref Mon # 2	ARFY						
Ref Mon # 3	ARLR						

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12A

**Latitude** 35 3 18.1208196

**Longitude** 93 2 13.4637252

**Ellipsoid Height (M):** 78.908 0.0040

**Geoid Height (M):** -28.913 0.0040

  

**Location Description**

TO REACH STA FROM JCT OF SR-155 & SR-247 NE OF CASA, GO S ON SR-155 1.1 MI TO STA ON RIGHT JUST BEFORE THE BRIDGE. 15' N OF C/L. 19' S OF BRB FE. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530018	<b>Date Monumented</b> 5/18/2016	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 7	<b>Job Number:</b> 080501
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	52,056.1092 0.0020
<b>Easting (M)</b>	298,283.7371 0.0020
<b>Elevation (M)*</b>	242.506
<b>Northing (SFT)</b>	170,787.4183
<b>Easting (SFT)</b>	978,619.2275
<b>Elevation (SFT)*</b>	795.620

  

<b>Convergence Angle</b>	0 38 48.3911820
<b>Scale Factor</b>	1.000029513
<b>Elevation Adjust. Factor</b>	0.9999619444
<b>Combined Adjust. Factor</b>	0.9999914563

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF E HEADWALL	35	240.00	787.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARLR	

  

Location Description	
FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 7.1 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 18' SE OF C/L. STA IS A 2 1/2" ALUM CAP STAMPED "530018 2016" SET  BELOW SURFACE.	

  

<b>AZ Mark Station</b>	530018A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530018A	<b>Date Monumented</b> 5/18/2016	<b>Monumented By</b> AHTD	<b>County</b> PERRY	<b>Route</b> 7	<b>Job Number:</b> 080501
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	52,323.5024	0.0020			
<b>Easting (M)</b>	298,497.6078	0.0020			
<b>Elevation (M)*</b>	235.346				
<b>Northing (SFT)</b>	171,664.6908				
<b>Easting (SFT)</b>	979,320.9016				
<b>Elevation (SFT)*</b>	772.132				

  

<b>Convergence Angle</b>	0	38	43.5648224
<b>Scale Factor</b>	1.000028936		
<b>Elevation Adjust. Factor</b>	0.9999630679		
<b>Combined Adjust. Factor</b>	0.9999920028		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	S END OF STEEL GT	82	89.00	292.0
<b>MK # 2</b>	N END OF CMP	47	12.00	39.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARLR	

  

<b>Location Description</b>
FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 6.9 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 20' SE OF C/L. 12' N OF GRAVEL DW. STA IS A 2 1/2" ALUM CAP STAMPED "530018A 2016" SET BELOW SURFACE.

  

<b>AZ Mark Station</b>	530018
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530019	<b>Date Monumented</b> 5/11/2020	<b>Monumented By</b> ARDOT	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 080609
--------------------------	-------------------------------------	-------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	75,785.9056	0.0030	
<b>Easting (M)</b>	327,086.0617	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	248,640.9253		
<b>Easting (SFT)</b>	1,073,114.8541		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	27	53.5176594
<b>Scale Factor</b>	0.999985162		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	220	22.40	73.5
MK # 2	WATER METER	64	20.97	68.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.
Ref Mon # 2    ARFY	
Ref Mon # 3    ARSC, ARFS	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   0   49.6069092
<b>Longitude</b>	92   47   55.9583556
<b>Ellipsoid Height (M):</b>	81.073   0.0140
<b>Geoid Height (M):</b>	-28.392   0.0140

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.25 MILES TO THE MARK ON THE RIGHT, SOUTHEAST OF THE C/L OF THE HIGHWAY 23.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 530019A	<b>Date Monumented</b> 5/11/2020	<b>Monumented By</b> ARDOT	<b>County</b> PERRY	<b>Route</b> 9	<b>Job Number:</b> 080609
---------------------------	-------------------------------------	-------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	76,022.8296	0.0040	
<b>Easting (M)</b>	327,356.6314	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	249,418.2334		
<b>Easting (SFT)</b>	1,074,002.5482		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	27	47.3517815
<b>Scale Factor</b>	0.999984791		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	80	21.18	69.5
MK # 2	FENCE CORNER	173	20.57	67.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARDQ	ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARSC, ARFS	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 0 57.3659964
<b>Longitude</b>	92 47 45.3622272
<b>Ellipsoid Height (M):</b>	73.964 0.0150
<b>Geoid Height (M):</b>	-28.393 0.0150

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.45 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 25.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540001	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 1	<b>Job Number:</b> 110217
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	614,966.4069				
<b>Easting (M)</b>	513,011.4800				
<b>Elevation (M)*</b>	67.266				
<b>Northing (SFT)</b>	2,017,602.2866				
<b>Easting (SFT)</b>	1,683,105.1640				
<b>Elevation (SFT)*</b>	220.689				

  

<b>Convergence Angle</b>	0	41	22.4402862
<b>Scale Factor</b>	0.999966849		
<b>Elevation Adjust. Factor</b>	0.9999894439		
<b>Combined Adjust. Factor</b>	0.9999562932		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	109	2.75	9.0
<b>MK # 2</b>	4" METAL SIGN POST	20	6.60	21.7
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	148	5.20	17.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	Cross Reference Job: 110218
<b>Ref Mon # 2</b> <input type="text" value="GIL"/>	
<b>Ref Mon # 3</b> <input type="text" value="RIDDELL"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 35 55.1731956
<b>Longitude</b>	90 46 4.6210584
<b>Ellipsoid Height (M):</b>	39.754
<b>Geoid Height (M):</b>	-27.512

Location Description
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER. GO NORTH ON HWY. 1 FOR 4.892 KM (3.04 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 42.5 METERS SOUTH OF THE JCT. OF HWY. 1 AND HWY. 242 LEADING EAST, 15.8 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540001A	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 1	<b>Job Number:</b> 110217
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 614,424.4290		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 513,017.7860		<b>Latitude</b> 34 35 37.5831672
<b>Elevation (M)*</b> 66.337		<b>Longitude</b> 90 46 4.6295796
<b>Northing (SFT)</b> 2,015,824.1475		<b>Ellipsoid Height (M):</b> 38.826
<b>Easting (SFT)</b> 1,683,125.8529		<b>Geoid Height (M):</b> -27.511
<b>Elevation (SFT)*</b> 217.641		

  

<b>Convergence Angle</b> 0 41 22.4355169	<b>Location Description</b> FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER. GO NORTH ON HWY. 1 FOR 4.350 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.584 KM (0.36 MILES) SOUTH OF THE JCT. OF HWY. 1 AND HWY. 242 LEADING EAST, 14.40 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999966014	
<b>Elevation Adjust. Factor</b> 0.9999895897	
<b>Combined Adjust. Factor</b> 0.9999556040	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	Cross Reference Job: 110218
<b>Ref Mon # 2</b> GIL	
<b>Ref Mon # 3</b> RIDDELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540002	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,280.9524	
<b>Easting (M)</b>	512,293.4518	
<b>Elevation (M)*</b>	64.011	
<b>Northing (SFT)</b>	82,942.5913	
<b>Easting (SFT)</b>	1,680,749.4331	
<b>Elevation (SFT)*</b>	210.009	

  

<b>Convergence Angle</b>	0	42	42.8751037
<b>Scale Factor</b>	1.000095909		
<b>Elevation Adjust. Factor</b>	0.9999899547		
<b>Combined Adjust. Factor</b>	1.0000858627		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	10" CRABAPPLE TREE	258	12.80	42.0
<b>MK # 2</b>	GAS LINE VALVE	80	7.40	24.3
<b>MK # 3</b>	NORTHEAST CORNER OF METAL BUILDING	152	17.75	58.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT	
<b>Ref Mon # 2</b> BRINKLEYPOR	
<b>Ref Mon # 3</b> H 349	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 33 17.6906988
<b>Longitude</b>	90 46 35.6711736
<b>Ellipsoid Height (M):</b>	37.069
<b>Geoid Height (M):</b>	-26.875

Location Description
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER. GO WEST ON HWY. 49 FOR 0.821 KM (0.51 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE ARKANSAS STATE HIGHWAY DEPARTMENT SHOP BUILDING. THE STATION IS 14.0 METERS SOUTH OF THE CENTERLINE OF HWY. 49, 16.2 METERS WEST OF A PAVED DRIVEWAY, 32.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.356 METERS.</p>

<b>AZ Mark Station</b>	540002A
<b>Geodetic Azimuth</b>	86 16 06.814430
<b>Grid Azimuth</b>	85 33 23.795651

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540002A	<b>Date Monumented</b> 8/25/1994	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	25,319.6383		
<b>Easting (M)</b>	512,791.3444		
<b>Elevation (M)*</b>	63.234		
<b>Northing (SFT)</b>	83,069.5133		
<b>Easting (SFT)</b>	1,682,382.9358		
<b>Elevation (SFT)*</b>	207.460		

  

<b>Convergence Angle</b>	0	42	54.2483543
<b>Scale Factor</b>	1.000095818		
<b>Elevation Adjust. Factor</b>	0.9999900766		
<b>Combined Adjust. Factor</b>	1.0000858937		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	540002
<b>Geodetic Azimuth</b>	266 16 17.90035
<b>Grid Azimuth</b>	265 33 23.79565

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMYPORT	
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540003	<b>Date Monumented</b> 9/28/1998	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110333,110536
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 605,228.4909		<b>Latitude</b> 34 30 33.8451408
<b>Easting (M)</b> 525,913.9210		<b>Longitude</b> 90 37 43.4136504
<b>Elevation (M)*</b> 66.271		<b>Ellipsoid Height (M):</b> 39.388
		<b>Geoid Height (M):</b> -26.883

  

<b>Northing (SFT)</b> 1,985,653.8072		<b>Location Description</b>
<b>Easting (SFT)</b> 1,725,435.9225		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE RIGHT SET IN FRONT OF THE JOHN DEERE DEALERSHIP. THE STATION IS 168.98 METERS NORTHWEST OF THE CENTER OF LITTLE ROCK ROAD, 118.07 METERS SOUTHEAST OF THE CENTER OF THE ENTRANCE TO THE JOHN DEERE DEALERSHIP, 28.84 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 1.64 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 217.424		

  

<b>Convergence Angle</b> 0 46 2.9614046		
<b>Scale Factor</b> 0.999952741		
<b>Elevation Adjust. Factor</b> 0.9999896000		
<b>Combined Adjust. Factor</b> 0.9999423415		

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MARK ON TOP OF IRON PIPE FENCE POST	269	2.04	6.7
<b>MK # 2</b>	MARK ON TOP OF IRON PIPE FENCE POST	315	7.39	24.2
<b>MK # 3</b>	MARK ON TOP OF IRON PIPE FENCE POST	166	5.02	16.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	<p>ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.</p>
<b>Ref Mon # 2</b> ADEHO 2 RM 6	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540003A	<b>Date Monumented</b> 9/28/1998	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110333
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	605,662.0749		
<b>Easting (M)</b>	525,706.5340		
<b>Elevation (M)*</b>	71.069		
<b>Northing (SFT)</b>	1,987,076.3241		
<b>Easting (SFT)</b>	1,724,755.5203		
<b>Elevation (SFT)*</b>	233.166		

  

<b>Convergence Angle</b>	0	45	58.5384346
<b>Scale Factor</b>	0.999953311		
<b>Elevation Adjust. Factor</b>	0.9999888471		
<b>Combined Adjust. Factor</b>	0.9999421586		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	333	32.34	106.1
<b>MK # 2</b>	IN LINE BRACE POST (IRON PIPE)	31	3.65	12.0
<b>MK # 3</b>	POWER POLE	141	36.39	119.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BRINKLEYPORT	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.
<b>Ref Mon # 2</b> ADEHO 2 RM 6	
<b>Ref Mon # 3</b> H 349	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    30    48.0054708
<b>Longitude</b>	90    37    51.3161760
<b>Ellipsoid Height (M):</b>	44.185
<b>Geoid Height (M):</b>	-26.884

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.823 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 3.14 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540004	<b>Date Monumented</b> 9/28/1998	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110333,110536,110555
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,346.7119	
<b>Easting (M)</b>	523,823.5340	
<b>Elevation (M)*</b>	77.294	
<b>Northing (SFT)</b>	1,999,165.0040	
<b>Easting (SFT)</b>	1,718,577.7111	
<b>Elevation (SFT)*</b>	253.589	

  

<b>Convergence Angle</b>	0	45	18.2877064
<b>Scale Factor</b>	0.999958352		
<b>Elevation Adjust. Factor</b>	0.9999878702		
<b>Combined Adjust. Factor</b>	0.9999462227		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.80 METERS SOUTHEAST OF A FIELD ENTRANCE, 6.40 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANES AND 2.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	241	14.40	47.2
MK # 2	CORNER POST OF CHAIN LINK FENCE	351	6.50	21.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 2</b>    ADEHO 2 RM 6</p> <p><b>Ref Mon # 3</b>    H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540004A	<b>Date Monumented</b> 9/28/1998	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110333,110555
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,802.2729	
<b>Easting (M)</b>	523,389.9670	
<b>Elevation (M)*</b>	74.383	

  

<b>Northing (SFT)</b>	2,000,659.6237	
<b>Easting (SFT)</b>	1,717,155.2501	
<b>Elevation (SFT)*</b>	244.038	

  

<b>Convergence Angle</b>	0	45	8.9020771
<b>Scale Factor</b>	0.999959003		
<b>Elevation Adjust. Factor</b>	0.9999883270		
<b>Combined Adjust. Factor</b>	0.9999473305		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 38.42 METERS NORTHWEST OF THE CENTER OF A PAVED ENTRANCE TO A PARKING LOT, 7.244 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANES OF U.S. HIGHWAY 49 AND 2.17 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	123	31.19	102.3
<b>MK # 2</b>	CORNER POST OF CHAIN LINK FENCE	312	30.99	101.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.
<b>Ref Mon # 2</b> ADEHO 2 RM 6	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540004B	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,264.3078	
<b>Easting (M)</b>	507,396.5608	
<b>Elevation (M)*</b>	59.138	
<b>Northing (SFT)</b>	82,887.9832	
<b>Easting (SFT)</b>	1,664,683.5499	
<b>Elevation (SFT)*</b>	194.022	

  

<b>Convergence Angle</b>	0	40	51.1195352
<b>Scale Factor</b>	1.000095789		
<b>Elevation Adjust. Factor</b>	0.9999907194		
<b>Combined Adjust. Factor</b>	1.0000865075		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	248	13.20	43.3
MK # 2	TELEPHONE JUNCTION BOX	259	25.90	85.0
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT <b>Ref Mon # 2</b> BRINKLEYPORT <b>Ref Mon # 3</b> H 349	DUPLICATE STAMPING. STAMPED AS 540004     

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	33	19.0818972
<b>Longitude</b>	90	49	47.7243372
<b>Ellipsoid Height (M):</b>	32.282		
<b>Geoid Height (M):</b>	-26.856		

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.80 KM (5.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.10 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 16.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 596.406 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540004BA	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
----------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,264.7529	
<b>Easting (M)</b>	506,672.7820	
<b>Elevation (M)*</b>	58.270	
<b>Northing (SFT)</b>	82,889.4435	
<b>Easting (SFT)</b>	1,662,308.9523	
<b>Elevation (SFT)*</b>	191.174	

  

<b>Convergence Angle</b>	0	40	34.6023373
<b>Scale Factor</b>	1.000095764		
<b>Elevation Adjust. Factor</b>	0.9999908556		
<b>Combined Adjust. Factor</b>	1.0000866187		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.55 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 723.714 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	244	13.39	43.9
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="ALMYPORT"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="BRINKLEYPORT"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DUPLICATE STAMPING. STAMPED AS 540004A</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540005	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,234.1310	
<b>Easting (M)</b>	502,315.2730	
<b>Elevation (M)*</b>	58.449	
<b>Northing (SFT)</b>	82,788.9781	
<b>Easting (SFT)</b>	1,648,012.6915	
<b>Elevation (SFT)*</b>	191.761	

  

<b>Convergence Angle</b>	0	38	55.1512918
<b>Scale Factor</b>	1.000095708		
<b>Elevation Adjust. Factor</b>	0.9999908275		
<b>Combined Adjust. Factor</b>	1.0000865347		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	251	15.60	51.2
<b>MK # 2</b>	EAST END OF RCP	285	16.60	54.5
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	540005A
<b>Geodetic Azimuth</b>	87 03 22.457503
<b>Grid Azimuth</b>	86 24 27.134582

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMYPORT	
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540005A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,271.5049	
<b>Easting (M)</b>	502,910.5630	
<b>Elevation (M)*</b>	56.840	
<b>Northing (SFT)</b>	82,911.5957	
<b>Easting (SFT)</b>	1,649,965.7388	
<b>Elevation (SFT)*</b>	186.483	

  

<b>Convergence Angle</b>	0	39	8.7461944
<b>Scale Factor</b>	1.000095623		
<b>Elevation Adjust. Factor</b>	0.9999910800		
<b>Combined Adjust. Factor</b>	1.0000867022		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	280	17.55	57.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	540005
<b>Geodetic Azimuth</b>	267 03 35.70916
<b>Grid Azimuth</b>	266 24 27.13458

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ALMYPORT	
<b>Ref Mon # 2</b> BRINKLEYPOR	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540006	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,799.7080	
<b>Easting (M)</b>	498,625.9433	
<b>Elevation (M)*</b>	65.094	
<b>Northing (SFT)</b>	84,644.5420	
<b>Easting (SFT)</b>	1,635,908.6156	
<b>Elevation (SFT)*</b>	213.563	

  

<b>Convergence Angle</b>	0	37	31.0970458
<b>Scale Factor</b>	1.000094018		
<b>Elevation Adjust. Factor</b>	0.9999897847		
<b>Combined Adjust. Factor</b>	1.0000838018		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	207	11.60	38.1
<b>MK # 2</b>	GAS VALVE	135	6.50	21.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ALMYPORT	
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 33 39.6979416
<b>Longitude</b>	90 55 31.4651676
<b>Ellipsoid Height (M):</b>	38.297
<b>Geoid Height (M):</b>	-26.797

  

Location Description
<p>THE STATION IS LOCATED ON THE WEST SIDE OF MARVELL AT THE JUNCTION OF U.S. HIGHWAY 49 STATE HIGHWAY 1 SOUTH. THE STATION IS 35.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 NORTH BOUND LANE, 23.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE STOT DISTANCE IS 598.519 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540006A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110384
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	25,785.8824	
<b>Easting (M)</b>	499,224.3575	
<b>Elevation (M)*</b>	63.757	
<b>Northing (SFT)</b>	84,599.1825	
<b>Easting (SFT)</b>	1,637,871.9129	
<b>Elevation (SFT)*</b>	209.176	

  

<b>Convergence Angle</b>	0	37	44.7510479
<b>Scale Factor</b>	1.000094075		
<b>Elevation Adjust. Factor</b>	0.9999899945		
<b>Combined Adjust. Factor</b>	1.0000840686		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS EAST OF THE CENTER OF A PAVED STREET, 15.10 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 598.519 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	75	8.70	28.5		540006
MK # 2	WEST END OF CMP	113	10.50	34.4		271 57 09.18797
MK # 3	NONE					271 19 24.60841

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ALMYPORT"/> <b>Ref Mon # 2</b> <input type="text" value="BRINKLEYPORT"/> <b>Ref Mon # 3</b> <input type="text" value="H 349"/>	ELEVATION BY 3 WIRE FROM NGS POINT A 224

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540007	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	28,791.5962	
<b>Easting (M)</b>	494,202.3307	
<b>Elevation (M)*</b>	61.190	
<b>Northing (SFT)</b>	94,460.4285	
<b>Easting (SFT)</b>	1,621,395.4800	
<b>Elevation (SFT)*</b>	200.754	

  

<b>Convergence Angle</b>	0	35	50.8494364
<b>Scale Factor</b>	1.000085684		
<b>Elevation Adjust. Factor</b>	0.9999903974		
<b>Combined Adjust. Factor</b>	1.0000760806		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	125	5.80	19.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ALMYPORT <b>Ref Mon # 2</b> BRINKLEYPORT <b>Ref Mon # 3</b> H 349	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT A 224</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT A 224
Comments			
ELEVATION BY 3 WIRE FROM NGS POINT A 224			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 5.63 KM (3.50 MI) TO THE JUNCTION OF COUNTY ROAD 145 AND THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 8.00 METERS NORTHEAST OF THE CENTER OF COUNTY ROAD 145 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 498.453 METERS.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540007A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	28,846.4266				
<b>Easting (M)</b>	493,706.8594				
<b>Elevation (M)*</b>	55.913				
<b>Northing (SFT)</b>	94,640.3179				
<b>Easting (SFT)</b>	1,619,769.9212				
<b>Elevation (SFT)*</b>	183.441				

  

<b>Convergence Angle</b>	0	35	39.5505211
<b>Scale Factor</b>	1.000085522		
<b>Elevation Adjust. Factor</b>	0.9999912255		
<b>Combined Adjust. Factor</b>	1.0000767468		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.13 KM (3.81 KM) TO THE STATION ON THE LEFT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 498.453.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT A 224</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540008	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 39	<b>Job Number:</b> 110385
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	29,199.0920	
<b>Easting (M)</b>	490,316.5549	
<b>Elevation (M)*</b>	56.482	
<b>Northing (SFT)</b>	95,797.3543	
<b>Easting (SFT)</b>	1,608,646.8972	
<b>Elevation (SFT)*</b>	185.308	

  

<b>Convergence Angle</b>	0	34	22.2275620
<b>Scale Factor</b>	1.000084477		
<b>Elevation Adjust. Factor</b>	0.9999911362		
<b>Combined Adjust. Factor</b>	1.0000756125		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.11 KM (0.07 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.10 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 39 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171. THE SHOT DISTANCE IS 557.792 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	346	10.60	34.8
MK # 2	POWER POLE	161	4.70	15.4
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2    <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3    <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT G 171</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540008A	<b>Date Monumented</b> 12/11/2000	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 39	<b>Job Number:</b> 110385
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	28,641.6272	
<b>Easting (M)</b>	490,296.0347	
<b>Elevation (M)*</b>	56.162	
<b>Northing (SFT)</b>	93,968.4052	
<b>Easting (SFT)</b>	1,608,579.5738	
<b>Elevation (SFT)*</b>	184.258	

  

<b>Convergence Angle</b>	0	34	21.6318281
<b>Scale Factor</b>	1.000085982		
<b>Elevation Adjust. Factor</b>	0.9999911864		
<b>Combined Adjust. Factor</b>	1.0000771677		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.65 METERS WEST OF THE CENTER OF STATE HIGHWAY 39 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE CABLE SIGN	191	3.95	13.0
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT G 171</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540009	<b>Date Monumented</b> 3/29/2011	<b>Monumented By</b> AHTD	<b>County</b> Phillips	<b>Route</b> CR 240	<b>Job Number:</b> BR5405,110217
--------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	619,062.3431	0.0062
<b>Easting (M)</b>	513,689.8432	0.0052
<b>Elevation (M)*</b>	60.502	0.0024
<b>Northing (SFT)</b>	2,031,040.3707	
<b>Easting (SFT)</b>	1,685,330.7606	
<b>Elevation (SFT)*</b>	198.496	

  

<b>Convergence Angle</b>	0	41	38.4296971
<b>Scale Factor</b>	0.999973382		
<b>Elevation Adjust. Factor</b>	0.9999905054		
<b>Combined Adjust. Factor</b>	0.9999638877		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S.E. corner of bridge	317	36.58	120.0
MK # 2	power pole	144	0.90	3.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

  

Location Description	
The intersection of highway 49 and highway 1 at Walnut corner, go north on highway 1 for miles to the phillips county road 240, turn right (east), go 0.4 miles to the station on the right, 120 feet south of the center of cr 240 and 3 feet north of a witness post. The station mark is a standard 2 1/2" alum. cap stamped( 540009 2011) set on top of a 4 foot rebar and driven 0.4 feet below ground level. Lat.34.3807.75 Lon.090.4536	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540009A	<b>Date Monumented</b> 3/29/2011	<b>Monumented By</b> AHTD	<b>County</b> Phillips	<b>Route</b> CR 240	<b>Job Number:</b> BR5405,110217
---------------------------	-------------------------------------	------------------------------	---------------------------	------------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	619,107.8830	0.0061
<b>Easting (M)</b>	514,141.9330	0.0051
<b>Elevation (M)*</b>	60.921	0.0026
<b>Northing (SFT)</b>	2,031,189.7795	
<b>Easting (SFT)</b>	1,686,813.9919	
<b>Elevation (SFT)*</b>	199.871	

  

<b>Convergence Angle</b>	0	41	48.3759425
<b>Scale Factor</b>	0.999973448		
<b>Elevation Adjust. Factor</b>	0.9999904396		
<b>Combined Adjust. Factor</b>	0.9999638879		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole	103	2.90	9.5
MK # 2	N.W. corner bridge	107	24.38	80.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540010	<b>Date Monumented</b> 4/6/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 242	<b>Job Number:</b> 110217
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	615,001.4971	0.0062	
<b>Easting (M)</b>	513,034.8406	0.0048	
<b>Elevation (M)*</b>	66.953	0.0016	
<b>Northing (SFT)</b>	2,017,717.4117		
<b>Easting (SFT)</b>	1,683,181.8062		
<b>Elevation (SFT)*</b>	219.662		

  

<b>Convergence Angle</b>	0	41	22.9626602
<b>Scale Factor</b>	0.999966903		
<b>Elevation Adjust. Factor</b>	0.9999894930		
<b>Combined Adjust. Factor</b>	0.9999563963		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combo Poloe	176	2.44	8.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
--	--

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 35 56.3027715
<b>Longitude</b>	90 46 3.6877322
<b>Ellipsoid Height (M):</b>	40.088 0.0128
<b>Geoid Height (M):</b>	-26.847 0.2232

Location Description
The interscction of highway 1 and higheay 49 in Walnut Corner, go North on highway 1 for 3.0 miles to the station on the right , 8' north of a witness post, 28' south of a highway 1 and is in the south east quadrant of the intersection of highway 1 and 242. The station mark is a standard 2 1/2" alum. cap stamps (2011 540010) and set on top of a 4' rebar driven 0.2' below ground level. Lat. 34.3556 Lon. 090.4603

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540010A	<b>Date Monumented</b> 4/6/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 242	<b>Job Number:</b> 110217
---------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	614,997.9490	0.0060	
<b>Easting (M)</b>	513,445.1666	0.0047	
<b>Elevation (M)*</b>	67.027	0.0014	
<b>Northing (SFT)</b>	2,017,705.7710		
<b>Easting (SFT)</b>	1,684,528.0174		
<b>Elevation (SFT)*</b>	219.906		

  

<b>Convergence Angle</b>	0	41	31.9742066
<b>Scale Factor</b>	0.999966890		
<b>Elevation Adjust. Factor</b>	0.9999894813		
<b>Combined Adjust. Factor</b>	0.9999563717		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	combo pole		168		1.22	4.0
MK # 2	telephone box		200		1.37	4.5
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540011	<b>Date Monumented</b> 4/7/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110217
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	610,090.1828    0.0048
<b>Easting (M)</b>	512,317.1237    0.0038
<b>Elevation (M)*</b>	63.948    0.0019
<b>Northing (SFT)</b>	2,001,604.2081
<b>Easting (SFT)</b>	1,680,827.0967
<b>Elevation (SFT)*</b>	209.802

  

<b>Convergence Angle</b>	0	41	5.9088531
<b>Scale Factor</b>	0.999959609		
<b>Elevation Adjust. Factor</b>	0.9999899646		
<b>Combined Adjust. Factor</b>	0.9999495740		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	220	4.88	16.0
MK # 2	18" cmp	23	5.64	18.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

  

Location Description	
The intersection of highway 1 and highway 49 at Walnut corner, go west on highway 49 to the station on the left, 2' north of a witness post, 26' west of the center of a gravel driveway and 79' south of the center of highway 49. The station mark is a standard 2 1/2" alum. cap stamped(2011 540011) and set on top of a 4' rebar driven 0.2 foot below ground level Lat. 34.3316 Lon. 090.4634	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540011A	<b>Date Monumented</b> 4/7/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 49	<b>Job Number:</b> 110217
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	610,151.4939	0.0050	
<b>Easting (M)</b>	511,691.5317	0.0039	
<b>Elevation (M)*</b>	63.756	0.0022	
<b>Northing (SFT)</b>	2,001,805.3596		
<b>Easting (SFT)</b>	1,678,774.6336		
<b>Elevation (SFT)*</b>	209.173		

  

<b>Convergence Angle</b>	0	40	52.1913567
<b>Scale Factor</b>	0.999959708		
<b>Elevation Adjust. Factor</b>	0.9999899947		
<b>Combined Adjust. Factor</b>	0.9999497031		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	30"cmp	235	10.67	35.0
MK # 2	power pole	94	34.14	112.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
--	--

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	34 33 19.4371574
<b>Longitude</b>	90 46 58.6668559
<b>Ellipsoid Height (M):</b>	36.877 0.0126
<b>Geoid Height (M):</b>	-26.873 0.2232

Location Description
The intersection of highway 1 and highway 49 at Walnut Corner, go west on highway 49 to the station on the right, 2' south of a witness post, 45' east of the center of a gravel field entrance and 78' north of the center line of highway 49. The station mark is a standard 2 1/2" alum. cap stamped (2011 540011A) and set on top of a 4' rebar and driven 0.2 foot below ground level Lat. 34.3319 Lon.090.4658

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540012	<b>Date Monumented</b> 4/11/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 1	<b>Job Number:</b> 110217
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,169.2128	0.0048
<b>Easting (M)</b>	513,039.8186	0.0038
<b>Elevation (M)*</b>	65.359	0.0021
<b>Northing (SFT)</b>	2,008,425.1590	
<b>Easting (SFT)</b>	1,683,198.1382	
<b>Elevation (SFT)*</b>	214.432	

  

<b>Convergence Angle</b>	0	41	22.3232986
<b>Scale Factor</b>	0.999962617		
<b>Elevation Adjust. Factor</b>	0.9999897431		
<b>Combined Adjust. Factor</b>	0.9999523605		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24"cmp	138	9.75	32.0
MK # 2	telephone box	127	11.43	37.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	34 34 24.3909093
<b>Longitude</b>	90 46 4.8300802
<b>Ellipsoid Height (M):</b>	38.479 0.0124
<b>Geoid Height (M):</b>	-26.866 0.2232

Location Description
<p>The intersection of highway 1 and 49 at Walnut corner, go north on highway 1 for 1.3 miles to the station on the right, 35' east of the center line of highway 1, 2' west of a witness post and 41' north of the center line of a gravel road to a one story frame house. The station is a standard 2 1/2" alum. cap stamped (2011 540012) set on a 4' rebar driven 0.2 foot below ground level. Lat.34.3320 Lon.090.51.08</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540012A	<b>Date Monumented</b> 4/11/2011	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 1	<b>Job Number:</b> 110217
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	612,684.0590	0.0046			
<b>Easting (M)</b>	513,041.9377	0.0036			
<b>Elevation (M)*</b>	66.571	0.0022			
<b>Northing (SFT)</b>	2,010,114.2836				
<b>Easting (SFT)</b>	1,683,205.0906				
<b>Elevation (SFT)*</b>	218.409				

  

<b>Convergence Angle</b>	0	41	22.5058941
<b>Scale Factor</b>	0.999963381		
<b>Elevation Adjust. Factor</b>	0.9999895529		
<b>Combined Adjust. Factor</b>	0.9999529343		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	fire hydrant	98	2.16	7.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
--	--

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	34 34 41.0973142
<b>Longitude</b>	90 46 4.5038367
<b>Ellipsoid Height (M):</b>	39.689 0.0121
<b>Geoid Height (M):</b>	-26.863 0.2232

Location Description
The intersection of highway 1 and highway 49 at walnut corner, Go north on highway 1 for 1.6 miles to the station on the right , 2' west of post, 47' south of the center line of county road 244, and 51' east of the center line of highway1. The station mark is a standard 2 1/2" alum. cap stamped (2011 540012A) and set on top of a 4' rebar driven 0.2' below ground level Lat.34.3441 Lon.090.4604

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540013	<b>Date Monumented</b> 10/15/2012	<b>Monumented By</b> AHTD	<b>County</b> Phillips	<b>Route</b> 44	<b>Job Number:</b> 110575
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	568,845.7121	
<b>Easting (M)</b>	495,346.5357	
<b>Elevation (M)*</b>	48.749	0.0008
<b>Northing (SFT)</b>	1,866,287.9738	
<b>Easting (SFT)</b>	1,625,149.4259	
<b>Elevation (SFT)*</b>	159.937	

  

<b>Convergence Angle</b>	0	34	44.1999112
<b>Scale Factor</b>	0.999921894		
<b>Elevation Adjust. Factor</b>	0.9999923498		
<b>Combined Adjust. Factor</b>	0.9999142444		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 11 4.7636124
<b>Longitude</b>	90 57 56.1575988
<b>Ellipsoid Height (M):</b>	22.280
<b>Geoid Height (M):</b>	-26.542

  

Location Description
<p>From the town of Mellwood. Go south on Hwy. 44 for 2.55 miles to the station on the left. It is a standard alum. cap on a 4ft. 5/8in. rebar. Cap is stamped 540013 2012 70ft. East of Center Line Highway 44, 25ft. North of Center of Field Entrance</p>

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> Southeast of telephone box	341	3.96	13.0	
<b>MK # 2</b> South of power pole with light	8	22.86	75.0	
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> BASED ON NGS POINT K 305
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/>	
<b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/>	
<b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540014	<b>Date Monumented</b> 4/12/2016	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 85	<b>Job Number:</b> B078, 110716
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	599,531.5869	0.0038	
<b>Easting (M)</b>	511,494.3129	0.0036	
<b>Elevation (M)*</b>	52.140		
<b>Northing (SFT)</b>	1,966,963.2147		
<b>Easting (SFT)</b>	1,678,127.5916		
<b>Elevation (SFT)*</b>	171.062		

  

<b>Convergence Angle</b>	0	40	45.0980244
<b>Scale Factor</b>	0.999945937		
<b>Elevation Adjust. Factor</b>	0.9999918176		
<b>Combined Adjust. Factor</b>	0.9999377551		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	27	34.8791004
<b>Longitude</b>	90	47	11.3404848
<b>Ellipsoid Height:</b>	25.156		
<b>Grid Northing (Meters)</b>	599,531.5823		
<b>Grid Easting (Meters)</b>	511,494.3139		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER CHAINLINK FENCE	357	1.50	4.9
MK # 2	EAST BRICK COLUMN "ONEIDA COMMUNI	270	10.70	35.1
MK # 3	TY CEMETERY			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARWY	Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.
Ref Mon # 2 ARPB	
Ref Mon # 3 MSB6	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540014A	<b>Date Monumented</b> 4/12/2016	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 85	<b>Job Number:</b> B078, 110716
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	599,505.3352	0.0040	
<b>Easting (M)</b>	510,773.5866	0.0038	
<b>Elevation (M)*</b>	51.712		
<b>Northing (SFT)</b>	1,966,877.0872		
<b>Easting (SFT)</b>	1,675,763.0087		
<b>Elevation (SFT)*</b>	169.658		

  

<b>Convergence Angle</b>	0	40	29.2870028
<b>Scale Factor</b>	0.999945916		
<b>Elevation Adjust. Factor</b>	0.9999918848		
<b>Combined Adjust. Factor</b>	0.9999378012		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34	27	34.3034676
<b>Longitude</b>	90	47	39.5902068
<b>Ellipsoid Height:</b>	24.717		
<b>Grid Northing (Meters)</b>	599,505.3280		
<b>Grid Easting (Meters)</b>	510,773.5837		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	2.00	6.6
MK # 2	WELL HEAD	276	4.00	13.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARWY	Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.
Ref Mon # 2 ARST	
Ref Mon # 3 MSOX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 27 34.3037016
<b>Longitude</b>	90 47 39.5900916
<b>Ellipsoid Height (M):</b>	24.708 0.0192
<b>Geoid Height (M):</b>	-27.004

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY. 85 AND HWY. 318 IN ONEIDA. GO SOUTH ON HWY. 85 FOR 0.5 MILES TO PHILLIPS CO. RD. 348. GO WEST/RIGHT ON PHILLIPS CO. RD. FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FT. WEST OF A WITNESS POST, 34.5 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 348, AND 54 FT. EAST OF THE CENTER OF A FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540014A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540015	<b>Date Monumented</b> 5/9/2016	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 39	<b>Job Number:</b> B024
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	606,045.1948	0.0023	
<b>Easting (M)</b>	490,202.0944	0.0023	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,988,333.2766		
<b>Easting (SFT)</b>	1,608,271.3714		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	59.5572718
<b>Scale Factor</b>	0.999954357		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	256	8.50	27.9
<b>MK # 2</b>	24" CORRUGATED METAL PIPE	308	4.30	14.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB	Elevation derived by static GPS by crew S-5102 in May 2016
<b>Ref Mon # 2</b> ARWY	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	34    31    13.6723440
<b>Longitude</b>	91    1    3.1227240
<b>Ellipsoid Height (M):</b>	25.659    0.0114
<b>Geoid Height (M):</b>	-26.859

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, 25 FT. WEST OF THE CENTERLINE OF HWY 39, AND 22 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540015A	<b>Date Monumented</b> 5/9/2016	<b>Monumented By</b> AHTD	<b>County</b> PHILLIPS	<b>Route</b> 39	<b>Job Number:</b> B024
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	606,060.6649	0.0024	
<b>Easting (M)</b>	489,786.3731	0.0024	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,988,384.0314		
<b>Easting (SFT)</b>	1,606,907.4591		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	50.4377345
<b>Scale Factor</b>	0.999954383		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH LIGHT	108	3.30	10.8
<b>MK # 2</b>	18" CORRUGATED METAL PIPE	339	11.50	37.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPB	Elevation derived by static GPS by crew S-5102 in May 2016
<b>Ref Mon # 2</b> ARWY	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	34    31    14.3035680
<b>Longitude</b>	91    1    19.4166120
<b>Ellipsoid Height (M):</b>	26.884    0.0114
<b>Geoid Height (M):</b>	-26.856

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.0 MILES TO PHILLIPS CO. RD. 656. GO RIGHT/WEST ON PHILLIPS CO. RD. 656 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 11 FT. WEST OF A WITNESS POST, AND 18 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540016	<b>Date Monumented</b> 2/26/2019	<b>Monumented By</b> ARDOT	<b>County</b> PHILLIPS	<b>Route</b> 20	<b>Job Number:</b> 110701
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	590,408.9527	0.0020			
<b>Easting (M)</b>	513,903.7732	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,937,033.3723				
<b>Easting (SFT)</b>	1,686,032.6292				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	41	35.5126359
<b>Scale Factor</b>	0.999936308		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF CMP UNDER HIGHWAY	229	29.57	97.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARPB	
Ref Mon # 2    ARWY	
Ref Mon # 3    MSOX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34   22   37.8904764
<b>Longitude</b>	90   45   41.2646760
<b>Ellipsoid Height (M):</b>	26.749   0.0060
<b>Geoid Height (M):</b>	-26.941   0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HIGHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 8.05 MILES TO THE MARK ON THE LEFT, SOUTHEAST 14.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540016A	<b>Date Monumented</b> 2/26/2019	<b>Monumented By</b> ARDOT	<b>County</b> PHILLIPS	<b>Route</b> 20	<b>Job Number:</b> 110701
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	590,645.8011	0.0020			
<b>Easting (M)</b>	514,261.4469	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,937,810.4324				
<b>Easting (SFT)</b>	1,687,206.0970				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	41	43.4111017
<b>Scale Factor</b>	0.999936527		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	50	21.03	69.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPB Ref Mon # 2    ARWY Ref Mon # 3    MSOX	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34 22 45.4362060
<b>Longitude</b>	90 45 27.1524780
<b>Ellipsoid Height (M):</b>	27.013 0.0060
<b>Geoid Height (M):</b>	-26.943 0.0060

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HIGHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 7.75 MILES TO A LEVEE ROAD ON THE LEFT, TURN LEFT HERE AND GO 240' TO THE MARK ON THE RIGHT, 12' WEST OF THE C/L OF THE LEVEE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540017	<b>Date Monumented</b> 2/26/2019	<b>Monumented By</b> ARDOT	<b>County</b> PHILLIPS	<b>Route</b> 20	<b>Job Number:</b> 110701
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	594,364.1899	0.0020			
<b>Easting (M)</b>	520,666.4872	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,950,009.8464				
<b>Easting (SFT)</b>	1,708,219.9668				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	44	4.7719058
<b>Scale Factor</b>	0.999940128		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CP W/TRANSFORMER	141	7.01	23.0
<b>MK # 2</b>	LIGHT POLE	320	17.68	58.0
<b>MK # 3</b>	NE COR 1-S-B HOOUSE	313	33.53	110.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARP	
<b>Ref Mon # 2</b> ARWY	
<b>Ref Mon # 3</b> MSOX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34    24    43.5131136
<b>Longitude</b>	90    41    14.5829652
<b>Ellipsoid Height (M):</b>	26.631    0.0100
<b>Geoid Height (M):</b>	-26.963    0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.55 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 16'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 540017A	<b>Date Monumented</b> 2/26/2019	<b>Monumented By</b> ARDOT	<b>County</b> PHILLIPS	<b>Route</b> 20	<b>Job Number:</b> 110701
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	594,630.7173	0.0020			
<b>Easting (M)</b>	521,018.3173	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,950,884.2783				
<b>Easting (SFT)</b>	1,709,374.2627				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	44	12.5576004
<b>Scale Factor</b>	0.999940400		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.3 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 13'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE END CMP UNDER HIGHWAY	62	18.59	61.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="ARPB"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="ARWY"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="MSOX"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550001	<b>Date Monumented</b> 8/1/1994	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 8	<b>Job Number:</b> 070063
--------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	578,404.6519	
<b>Easting (M)</b>	263,124.7450	
<b>Elevation (M)*</b>	164.557	
<b>Northing (SFT)</b>	1,897,649.2621	
<b>Easting (SFT)</b>	863,268.4342	
<b>Elevation (SFT)*</b>	539.884	

  

<b>Convergence Angle</b>	0	49	54.9104689
<b>Scale Factor</b>	0.999926624		
<b>Elevation Adjust. Factor</b>	0.9999741763		
<b>Combined Adjust. Factor</b>	0.9999008022		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF 12" METAL CULVERT	145	16.10	52.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARKAPORT	
<b>Ref Mon # 2</b> PLEASANT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    15    58.3948152
<b>Longitude</b>	93    29    11.0100120
<b>Ellipsoid Height (M):</b>	136.499
<b>Geoid Height (M):</b>	-28.058

Location Description
<p>FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO WEST ON HWY. 8 FOR 2.34 KM (1.46 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.56 KM (0.36 MILES) WEST OF THE PIKE -CLARK COUNTY LINE, JUST WEST OF THE CORNERSTONE FAMILY WORSHIP CENTER, 13.20 METERS NORTH OF THE CENTERLINE OF THE HWY. 8, 18.70 METERS WEST OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "550001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550001A	<b>Date Monumented</b> 8/1/1994	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 8	<b>Job Number:</b> 070063
---------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	578,338.6769	
<b>Easting (M)</b>	263,251.6880	
<b>Elevation (M)*</b>	162.420	
<b>Northing (SFT)</b>	1,897,432.8091	
<b>Easting (SFT)</b>	863,684.9130	
<b>Elevation (SFT)*</b>	532.873	

  

<b>Convergence Angle</b>	0	49	52.1123336
<b>Scale Factor</b>	0.999926583		
<b>Elevation Adjust. Factor</b>	0.9999745117		
<b>Combined Adjust. Factor</b>	0.9999010965		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO WEST ON HWY. 8 FOR 2.22 KM (1.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.45 KM (0.28 MILES) WEST OF THE PIKE-CLARK COUNTY LINE AND JUST WEST OF THE CORNERSTONE FAMILY WORSHIP CENTER, 14.30 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY, 47 METERS EAST OF A DRIVEWAY TO THE CHURCH AND 1 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "550001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOUBLE 8" GUM TREE	80	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	<p>THE COORDINATES ON THIS POINT WERE ARRIVED AT BY SOLAR OBSERVATION.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550007	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 26	<b>Job Number:</b> 070237
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	552,904.3480	
<b>Easting (M)</b>	268,822.1110	
<b>Elevation (M)*</b>	90.818	
<b>Northing (SFT)</b>	1,813,987.0151	
<b>Easting (SFT)</b>	881,960.5425	
<b>Elevation (SFT)*</b>	297.960	

  

<b>Convergence Angle</b>	0	47	42.5223371
<b>Scale Factor</b>	0.999918471		
<b>Elevation Adjust. Factor</b>	0.9999857478		
<b>Combined Adjust. Factor</b>	0.9999042200		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 0.05 MILES TO THE STATION ON THE LEFT. NORTH 10.3 METERS OF THE CENTERLINE AND 0.25 METERS SOUTH OF A WITNESS POST. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF ANTOINE CEMETERY. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "550007 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	336	10.50	34.4
MK # 2	CHAINLINK GATE FENCE POST	340	0.40	1.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD LITTLE ROCK</p> <p>Ref Mon # 2    HOPE, DQUA</p> <p>Ref Mon # 3    100007,100007A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3WR FROM NGS X 137 - RV 542</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550007A	<b>Date Monumented</b> 7/29/2003	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 26	<b>Job Number:</b> 070237
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	552,872.3611	
<b>Easting (M)</b>	268,478.1920	
<b>Elevation (M)*</b>	93.419	
<b>Northing (SFT)</b>	1,813,882.0714	
<b>Easting (SFT)</b>	880,832.2016	
<b>Elevation (SFT)*</b>	306.493	

  

<b>Convergence Angle</b>	0	47	50.0165501
<b>Scale Factor</b>	0.999918470		
<b>Elevation Adjust. Factor</b>	0.9999853397		
<b>Combined Adjust. Factor</b>	0.9999038109		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	242	10.20	33.5
MK # 2	GUY	222	5.40	17.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: AHTD LITTLE ROCK	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2: HOPE, DQUA	
Ref Mon # 3: 100007,100007A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 2 12.2501904
<b>Longitude</b>	93 25 27.8619024
<b>Ellipsoid Height (M):</b>	66.378
<b>Geoid Height (M):</b>	-26.939

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO WEST ON HIGHWAY 26 0.15 MILES TO THE STATION ON THE LEFT. SOUTH 8.2 METERS OF THE CENTERLINE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "550007A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550008	<b>Date Monumented</b> 2/6/2007	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 70	<b>Job Number:</b> 080318
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	586,589.3349	
<b>Easting (M)</b>	261,673.8890	
<b>Elevation (M)*</b>	178.194	
<b>Northing (SFT)</b>	1,924,501.8429	
<b>Easting (SFT)</b>	858,508.4175	
<b>Elevation (SFT)*</b>	584.626	

  

<b>Convergence Angle</b>	0	50	29.2814380
<b>Scale Factor</b>	0.999932627		
<b>Elevation Adjust. Factor</b>	0.9999720363		
<b>Combined Adjust. Factor</b>	0.9999046652		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER CONCRETE DITCH	29	19.75	64.8
<b>MK # 2</b>	METAL FENCE POST	141	13.78	45.2
<b>MK # 3</b>	TELEPHONE PEDESTAL	68	33.59	110.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> DQUA	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 70B, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT ON TOP OF A SMALL HILL SOUTH OF THE ROAD DITCH, SOUTHEAST 64.90 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "550008 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550009	<b>Date Monumented</b> 2/6/2007	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 8	<b>Job Number:</b> 080318
--------------------------	------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	585,602.6278	
<b>Easting (M)</b>	256,886.9980	
<b>Elevation (M)*</b>	168.011	
<b>Northing (SFT)</b>	1,921,264.6214	
<b>Easting (SFT)</b>	842,803.4259	
<b>Elevation (SFT)*</b>	551.216	

  

<b>Convergence Angle</b>	0	52	13.7681271
<b>Scale Factor</b>	0.999931756		
<b>Elevation Adjust. Factor</b>	0.9999736343		
<b>Combined Adjust. Factor</b>	0.9999053921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	134	15.12	49.6
MK # 2	POWER POLE W/TRANSFORMER	224	27.80	91.2
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> DQUA	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550010	<b>Date Monumented</b> 2/24/2016	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 70	<b>Job Number:</b> 030414, 030483
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	584,882.0617	0.0020
<b>Easting (M)</b>	255,948.1474	0.0020
<b>Elevation (M)*</b>	178.782	
<b>Northing (SFT)</b>	1,918,900.5641	
<b>Easting (SFT)</b>	839,723.2136	
<b>Elevation (SFT)*</b>	586.553	

  

<b>Convergence Angle</b>	0	52	34.0818398
<b>Scale Factor</b>	0.999931168		
<b>Elevation Adjust. Factor</b>	0.9999719441		
<b>Combined Adjust. Factor</b>	0.9999031140		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER RED BRICK CHURCH	345	84.90	278.5
<b>MK # 2</b>	SOUTHWEST CORNER 1-S-METAL BLDING	53	89.50	293.6
<b>MK # 3</b>	CHURCH SIGN	282	103.00	337.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARCM, OKHV	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    19    25.1297580
<b>Longitude</b>	93    33    55.4016852
<b>Ellipsoid Height (M):</b>	151.036    0.0060
<b>Geoid Height (M):</b>	-27.723    0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.6 MILES TO THE MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 59 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 550010A	<b>Date Monumented</b> 2/24/2016	<b>Monumented By</b> AHTD	<b>County</b> PIKE	<b>Route</b> 70	<b>Job Number:</b> 030414, 030483
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	584,682.9318	0.0020	
<b>Easting (M)</b>	256,516.3942	0.0020	
<b>Elevation (M)*</b>	183.847		
<b>Northing (SFT)</b>	1,918,247.2521		
<b>Easting (SFT)</b>	841,587.5366		
<b>Elevation (SFT)*</b>	603.173		

  

<b>Convergence Angle</b>	0	52	21.5753387
<b>Scale Factor</b>	0.999931017		
<b>Elevation Adjust. Factor</b>	0.9999711492		
<b>Combined Adjust. Factor</b>	0.9999021682		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	105	3.00	9.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARCM, OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.25 MILES TO THE MARK ON THE LEFT, SOUTH 71 FEET OF THE CENTERLINE OF THE HIGHWAY AND 41 FEET NORTH OF THE CENTERLINE OF A SIDE ROAD PARALLELING THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560001	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 1	<b>Job Number:</b> 001853
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	145,612.0080	
<b>Easting (M)</b>	516,527.1710	
<b>Elevation (M)*</b>	75.559	
<b>Northing (SFT)</b>	477,728.7296	
<b>Easting (SFT)</b>	1,694,639.5602	
<b>Elevation (SFT)*</b>	247.896	

  

<b>Convergence Angle</b>	0	44	55.3763171
<b>Scale Factor</b>	0.999936390		
<b>Elevation Adjust. Factor</b>	0.9999881425		
<b>Combined Adjust. Factor</b>	0.9999245332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.153 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 14.165 METERS SOUTHEAST OF THE CENTER OF DANA LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    NEWSPORT</p> <p><b>Ref Mon # 2</b>    AHTD PAR 1</p> <p><b>Ref Mon # 3</b>    MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on 3 wire from NGS point F 76</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560001A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 1	<b>Job Number:</b> 001853
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 145,132.7400		<b>Latitude</b> 35 38 4.9202304
<b>Easting (M)</b> 516,198.3990		<b>Longitude</b> 90 43 1.2820440
<b>Elevation (M)*</b> 75.226		<b>Ellipsoid Height (M):</b> 47.672
<b>Northing (SFT)</b> 476,156.3312		<b>Geoid Height (M):</b> -27.554
<b>Easting (SFT)</b> 1,693,560.9141		
<b>Elevation (SFT)*</b> 246.804		

  

<b>Convergence Angle</b>	0	44	47.6279513
<b>Scale Factor</b>	0.999936322		
<b>Elevation Adjust. Factor</b>	0.9999881947		
<b>Combined Adjust. Factor</b>	0.9999245175		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.92 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1, 10.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NORTHEAST END CMP	244	6.40	21.0		560001
MK # 2	NONE					35 11 46.162582
MK # 3	NONE					34 26 58.539524

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560002	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 1	<b>Job Number:</b> 001853,100833
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	150,729.9100	
<b>Easting (M)</b>	517,657.2070	
<b>Elevation (M)*</b>	75.639	
<b>Northing (SFT)</b>	494,519.7131	
<b>Easting (SFT)</b>	1,698,347.0200	
<b>Elevation (SFT)*</b>	248.159	

  

<b>Convergence Angle</b>	0	45	23.0747905
<b>Scale Factor</b>	0.999937475		
<b>Elevation Adjust. Factor</b>	0.9999881299		
<b>Combined Adjust. Factor</b>	0.9999256057		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	USC&GS BM F 76	115	35.69	117.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT <b>Ref Mon # 2</b> AHTD PAR 1 <b>Ref Mon # 3</b> MEM 2	Elevations based on 3 wire from NGS point F 76

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    41    5.9024580
<b>Longitude</b>	90    42    0.3662640
<b>Ellipsoid Height (M):</b>	48.032
<b>Geoid Height (M):</b>	-27.607

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.773 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 20.374 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 19.181 METERS WEST OF THE WEST RAIL AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560002A	<b>Date Monumented</b> 4/27/1999	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 1	<b>Job Number:</b> 001853
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	150,337.9890	
<b>Easting (M)</b>	517,525.2730	
<b>Elevation (M)*</b>	75.457	
<b>Northing (SFT)</b>	493,233.8856	
<b>Easting (SFT)</b>	1,697,914.1665	
<b>Elevation (SFT)*</b>	247.562	

  

<b>Convergence Angle</b>	0	45	19.9020428
<b>Scale Factor</b>	0.999937369		
<b>Elevation Adjust. Factor</b>	0.9999881585		
<b>Combined Adjust. Factor</b>	0.9999255282		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	14	4.70	15.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NEWSPORT	Elevations based on 3 wire from NGS point F 76
<b>Ref Mon # 2</b> AHTD PAR 1	
<b>Ref Mon # 3</b> MEM 2	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 40 53.2429320
<b>Longitude</b>	90 42 5.8186656
<b>Ellipsoid Height (M):</b>	47.854
<b>Geoid Height (M):</b>	-27.603

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI ) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.57 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 11.83 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560003	<b>Date Monumented</b> 9/27/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	128,359.4285	
<b>Easting (M)</b>	549,882.7927	
<b>Elevation (M)*</b>	67.870	
<b>Northing (SFT)</b>	421,125.8917	
<b>Easting (SFT)</b>	1,804,073.7957	
<b>Elevation (SFT)*</b>	222.670	

  

<b>Convergence Angle</b>	0	57	40.0986667
<b>Scale Factor</b>	0.999937614		
<b>Elevation Adjust. Factor</b>	0.9999893491		
<b>Combined Adjust. Factor</b>	0.9999269638		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN ON THE SOUTH END OF A BRIDGE. THE STATION IS 19.36 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 6.34 METERS SOUTH OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUARD RAIL POST	105	6.11	20.0	
MK # 2	SOUTHWEST CORNER OF NORTH BOUND B BRIDGE	309	2.49	8.2	
MK # 3	SOUTHEAST CORNER OF SOUTH BOUND B BRIDGE	251	18.59	61.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> W 15 OFFSET <b>Ref Mon # 2</b> MANIPORT <b>Ref Mon # 3</b> MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560003A	<b>Date Monumented</b> 9/27/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	128,535.4066	
<b>Easting (M)</b>	549,332.5889	
<b>Elevation (M)*</b>	66.206	
<b>Northing (SFT)</b>	421,703.2465	
<b>Easting (SFT)</b>	1,802,268.6687	
<b>Elevation (SFT)*</b>	217.211	

  

<b>Convergence Angle</b>	0	57	27.4672738
<b>Scale Factor</b>	0.999937561		
<b>Elevation Adjust. Factor</b>	0.9999896102		
<b>Combined Adjust. Factor</b>	0.9999271719		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 18.75 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 18.30 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE, AND 4.10 METERS WEST OF THE CENTER OF A GRASS CROSSOVER AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    W 15 OFFSET</p> <p><b>Ref Mon # 2</b>    MANIPORT</p> <p><b>Ref Mon # 3</b>    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560004	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	125,513.5345	
<b>Easting (M)</b>	553,047.0859	
<b>Elevation (M)*</b>	66.864	
<b>Northing (SFT)</b>	411,788.9878	
<b>Easting (SFT)</b>	1,814,455.3143	
<b>Elevation (SFT)*</b>	219.370	

  

<b>Convergence Angle</b>	0	58	52.0084982
<b>Scale Factor</b>	0.999938550		
<b>Elevation Adjust. Factor</b>	0.9999895070		
<b>Combined Adjust. Factor</b>	0.9999280576		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 22.40 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 18.00 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 16.00 METERS SOUTHEAST OF A PAVED CROSSOVER AND 0.46 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    W 15 OFFSET</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560004A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	124,976.4033	
<b>Easting (M)</b>	553,424.9964	
<b>Elevation (M)*</b>	66.524	
<b>Northing (SFT)</b>	410,026.7498	
<b>Easting (SFT)</b>	1,815,695.1757	
<b>Elevation (SFT)*</b>	218.254	

  

<b>Convergence Angle</b>	0	59	0.5154233
<b>Scale Factor</b>	0.999938749		
<b>Elevation Adjust. Factor</b>	0.9999895603		
<b>Combined Adjust. Factor</b>	0.9999283100		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.20 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 12.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    W 15 OFFSET</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560005	<b>Date Monumented</b> 8/1/2001	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 14	<b>Job Number:</b> 100381
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	138,047.4500	
<b>Easting (M)</b>	524,611.6060	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	452,910.6755	
<b>Easting (SFT)</b>	1,721,163.2440	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	59.9100248
<b>Scale Factor</b>	0.999935967		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER BRIDGE	0	10.00	32.8
<b>MK # 2</b>	CONCRETE GUARDRAIL POST	40	12.80	42.0
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	127	13.85	45.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> L 314	
<b>Ref Mon # 2</b> W 15 OFFSET	
<b>Ref Mon # 3</b> 560002	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 34 11.3488140
<b>Longitude</b>	90 37 30.8432028
<b>Ellipsoid Height (M):</b>	38.513
<b>Geoid Height (M):</b>	-27.554

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 9.576 KM (5.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 14, 9.00 METERS WEST OF A FIELD ENTRANCE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.</p>

<b>AZ Mark Station</b>	560005A
<b>Geodetic Azimuth</b>	272 42 08
<b>Grid Azimuth</b>	271 54 08

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560005A	<b>Date Monumented</b> 8/1/2001	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 14	<b>Job Number:</b> 100381
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	138,074.1210	
<b>Easting (M)</b>	523,808.5300	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	452,998.1786	
<b>Easting (SFT)</b>	1,718,528.4855	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	41.3610027
<b>Scale Factor</b>	0.999935965		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 8.787 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 14, 8.00 METERS WEST OF THE CENTER OF DITCH 26 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	212	9.25	30.3
MK # 2	POWER POLE	70	16.70	54.8
MK # 3	CONCRETE GUARDRAIL POST	182	7.75	25.4

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	L 314	
Ref Mon # 2	W 15 OFFSET	
Ref Mon # 3	560002	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560006	<b>Date Monumented</b> 12/19/2002	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 163	<b>Job Number:</b> 100208
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	152,705.3499	
<b>Easting (M)</b>	521,332.5700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	501,000.8021	
<b>Easting (SFT)</b>	1,710,405.2734	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	48.7500883
<b>Scale Factor</b>	0.999938052		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	351	7.90	25.9
MK # 2	POWER POLE	133	33.50	109.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BULTER, PARAGOULD <b>Ref Mon # 2</b> MEM2 <b>Ref Mon # 3</b> 480016	

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b> 	
<b>Latitude</b>	35 42 8.3968056
<b>Longitude</b>	90 39 33.1323300
<b>Ellipsoid Height (M):</b>	42.215
<b>Geoid Height (M):</b>	-27.645

  

Location Description
TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.3 MILES TO THE STATION ON THE RIGHT. 12.2 METERS SOUTH OF CENTER OF A FIELD ROAD, 11.20 METERS WEST OF THE CENTER OF THE ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560006A	<b>Date Monumented</b> 12/19/2002	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 163	<b>Job Number:</b> 100208
---------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	152,042.0530	
<b>Easting (M)</b>	521,330.6630	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	498,824.6356	
<b>Easting (SFT)</b>	1,710,399.0169	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	46	48.4968896
<b>Scale Factor</b>	0.999937843		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.7 MILES TO THE STATION ON THE RIGHT. 11.85 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="BULTER, PARAGOULD"/> Ref Mon # 2 <input type="text" value="MEM2"/> Ref Mon # 3 <input type="text" value="480016"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560007	<b>Date Monumented</b> 11/1/2007	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 214	<b>Job Number:</b> 100644
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	142,044.3620	
<b>Easting (M)</b>	526,151.0440	
<b>Elevation (M)*</b>	65.863	
<b>Northing (SFT)</b>	466,023.8777	
<b>Easting (SFT)</b>	1,726,213.8835	
<b>Elevation (SFT)*</b>	216.084	

  

<b>Convergence Angle</b>	0	48	36.7895607
<b>Scale Factor</b>	0.999936005		
<b>Elevation Adjust. Factor</b>	0.9999896641		
<b>Combined Adjust. Factor</b>	0.9999256698		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Well	305	31.69	104.0
<b>MK # 2</b>	Power Pole	217	23.47	77.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT, R 314	3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> ZME1	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 36 20.3288112
<b>Longitude</b>	90 36 27.4653180
<b>Ellipsoid Height (M):</b>	38.261
<b>Geoid Height (M):</b>	-27.601

Location Description
<p>The station is located at the junction of highways 214 and 373 approx. 7.0 miles southwest of Truman and 6.50 miles northeast of Harrisburg. 20 feet north of the center of hwy-214, 13.0 feet east of the center of a field road and 1.5 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "560007 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560007A	<b>Date Monumented</b> 11/1/2007	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 373	<b>Job Number:</b> 100644
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	141,264.9880	
<b>Easting (M)</b>	526,148.0440	
<b>Elevation (M)*</b>	64.999	
<b>Northing (SFT)</b>	463,466.8815	
<b>Easting (SFT)</b>	1,726,204.0410	
<b>Elevation (SFT)*</b>	213.250	

  

<b>Convergence Angle</b>	0	48	36.4654287
<b>Scale Factor</b>	0.999935967		
<b>Elevation Adjust. Factor</b>	0.9999897997		
<b>Combined Adjust. Factor</b>	0.9999257673		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 214 and 373 located approx. 7 miles southwest of Truman and 6.5 miles northeast of Harrisburg, go south on hwy-373 for 0.40 miles to the station on the right, 22.5 feet west of the center of hwy-373, 10 feet north of the center of a field road and 6 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "560007A 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16 in Cmp	282	3.04	10.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT, R 314 <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ZME1	<b>Comments</b>  3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560008	<b>Date Monumented</b> 7/10/2010	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 1	<b>Job Number:</b> 100688
--------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	137,958.0681	
<b>Easting (M)</b>	515,631.9800	
<b>Elevation (M)*</b>	81.277	
<b>Northing (SFT)</b>	452,617.4284	
<b>Easting (SFT)</b>	1,691,702.5877	
<b>Elevation (SFT)*</b>	266.656	

  

<b>Convergence Angle</b>	0	44	32.3784439
<b>Scale Factor</b>	0.999935966		
<b>Elevation Adjust. Factor</b>	0.9999872452		
<b>Combined Adjust. Factor</b>	0.9999232120		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	light pole	329	16.31	53.5
<b>MK # 2</b>	South East edge of Splash car wash sign	308	8.53	28.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG	Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> ZME1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560008A	<b>Date Monumented</b> 7/10/2010	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 1	<b>Job Number:</b> 100688
---------------------------	-------------------------------------	------------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	138,557.6930	
<b>Easting (M)</b>	515,703.5840	
<b>Elevation (M)*</b>	82.306	
<b>Northing (SFT)</b>	454,584.6978	
<b>Easting (SFT)</b>	1,691,937.5085	
<b>Elevation (SFT)*</b>	270.033	

  

<b>Convergence Angle</b>	0	44	34.2127605
<b>Scale Factor</b>	0.999935947		
<b>Elevation Adjust. Factor</b>	0.9999870836		
<b>Combined Adjust. Factor</b>	0.9999230314		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Southwest corner of the Unico bank sign post	5	32.00	105.0
<b>MK # 2</b>	Center of West entrance double doors to bank	39	36.88	121.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG	Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> ZME1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560009	<b>Date Monumented</b> 7/12/2012	<b>Monumented By</b> AHTD	<b>County</b> poinsett	<b>Route</b> 214	<b>Job Number:</b> 100764
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	146,889.5393		
<b>Easting (M)</b>	498,670.6270		
<b>Elevation (M)*</b>	74.643		
<b>Northing (SFT)</b>	481,920.0969		
<b>Easting (SFT)</b>	1,636,055.2154		
<b>Elevation (SFT)*</b>	244.892		

  

<b>Convergence Angle</b>	0	38	2.7024800
<b>Scale Factor</b>	0.999936641		
<b>Elevation Adjust. Factor</b>	0.9999882862		
<b>Combined Adjust. Factor</b>	0.9999249279		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	power pole	145	27.10	88.9	
MK # 2	power pole with guy	80	14.95	49.0	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560009A	<b>Date Monumented</b> 7/12/2012	<b>Monumented By</b> AHTD	<b>County</b> poinsett	<b>Route</b> 214	<b>Job Number:</b> 100764
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	146,869.6160		
<b>Easting (M)</b>	498,208.7203		
<b>Elevation (M)*</b>	74.844		
<b>Northing (SFT)</b>	481,854.7318		
<b>Easting (SFT)</b>	1,634,539.7765		
<b>Elevation (SFT)*</b>	245.551		

  

<b>Convergence Angle</b>	0	37	52.0122552
<b>Scale Factor</b>	0.999936638		
<b>Elevation Adjust. Factor</b>	0.9999882547		
<b>Combined Adjust. Factor</b>	0.9999248934		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	291	2.74	9.0
MK # 2	18" cmp	62	5.20	17.1
MK # 3	24" red oak	106	22.86	75.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.</td> </tr> </table>	Comments	ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.
Comments			
ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560010	<b>Date Monumented</b> 11/5/2013	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 140	<b>Job Number:</b> BR5611
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	137,781.0996	
<b>Easting (M)</b>	543,550.9027	
<b>Elevation (M)*</b>	65.127	
<b>Northing (SFT)</b>	452,036.8243	
<b>Easting (SFT)</b>	1,783,299.9199	
<b>Elevation (SFT)*</b>	213.670	

  

<b>Convergence Angle</b>	0	55	17.4483122
<b>Scale Factor</b>	0.999935992		
<b>Elevation Adjust. Factor</b>	0.9999897796		
<b>Combined Adjust. Factor</b>	0.9999257723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	3	43.28	142.0
MK # 2	WOODEN SIGN (THREE RIVERS COUNTRY CLUB)	271	6.10	20.0
MK # 3	TELEPHONE BOX	199	3.96	13.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in November 2013.</td> </tr> </table>	Comments	3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in November 2013.
Comments			
3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in November 2013.			

  

Location Description
TO REACH FROM THE JUNCTION OF HWY 140 AND HWY 308B IN MARKED TREE. GO NORTH ON HWY 140 FOR 2.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 19.0 FT. EAST OF THE WITNESS POST AND 44.5 FT. WEST OF THE CENTERLINE OF HWY 140. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "560010 2013" SET ON TOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	560010A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560010A	<b>Date Monumented</b> 11/5/2013	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 140	<b>Job Number:</b> BR5611
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	137,362.2747	
<b>Easting (M)</b>	543,552.8532	
<b>Elevation (M)*</b>	65.592	
<b>Northing (SFT)</b>	450,662.7296	
<b>Easting (SFT)</b>	1,783,306.3192	
<b>Elevation (SFT)*</b>	215.197	

  

<b>Convergence Angle</b>	0	55	17.3377279
<b>Scale Factor</b>	0.999936017		
<b>Elevation Adjust. Factor</b>	0.9999897066		
<b>Combined Adjust. Factor</b>	0.9999257242		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>
<p>TO REACH FROM THE JUNCTION OF HWY 140 AND HWY 308B IN MARKED TREE. GO NORTH ON HWY 140 FOR 2.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.0 FT. EAST OF THE WITNESS POST AND 44.0 FT. WEST OF THE CENTERLINE OF HWY 140. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "560010A 2013" SET ON TOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	276	2.74	9.0
MK # 2	CENTER OF HEADWALL	175	17.68	58.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novvember 2013.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560011	<b>Date Monumented</b> 6/27/2016	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 463	<b>Job Number:</b> 100615
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	149,159.3508	0.0023	
<b>Easting (M)</b>	534,481.8841	0.0025	
<b>Elevation (M)*</b>	66.991		
<b>Northing (SFT)</b>	489,366.9701		
<b>Easting (SFT)</b>	1,753,545.9814		
<b>Elevation (SFT)*</b>	219.785		

  

<b>Convergence Angle</b>	0	51	51.8637125
<b>Scale Factor</b>	0.999937017		
<b>Elevation Adjust. Factor</b>	0.9999894871		
<b>Combined Adjust. Factor</b>	0.9999265048		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF DROP INLET	125	24.08	79.0
<b>MK # 2</b>	CENTER OF DROP INLET	305	8.38	27.5
<b>MK # 3</b>	LIGHT POLE	255	26.61	87.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> MARK IS 59.2 FEET (18.04M) SOUTH OF THE CENTERLINE OF THE SECOND CONCRETE DRIVEWAY TO THE POST OFFICE.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560011-1	<b>Date Monumented</b> 7/18/2016	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 308	<b>Job Number:</b> 100840
----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	136,053.4630	0.0040	
<b>Easting (M)</b>	548,446.6176	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	446,368.7365		
<b>Easting (SFT)</b>	1,799,361.9446		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	57	9.9034787
<b>Scale Factor</b>	0.999936128		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARPG	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG & ARWY IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2    ARWY	
Ref Mon # 3    ARJB	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35   32   54.8243664
<b>Longitude</b>	90   21   45.6734520
<b>Ellipsoid Height (M):</b>	38.299   0.0090
<b>Geoid Height (M):</b>	-27.739   0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 308 AND STATE HIGHWAY 135, EAST OF MARKED TREE, GO WEST ON HIGHWAY 308 2.3 MILES TO THE MARK ON THE RIGHT, NORTH 25.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND 11.5 FEET OF EAST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "560011 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560011A	<b>Date Monumented</b> 6/27/2016	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 463	<b>Job Number:</b> 100615
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	148,842.8769	0.0023			
<b>Easting (M)</b>	534,830.6687	0.0025			
<b>Elevation (M)*</b>	66.957				
<b>Northing (SFT)</b>	488,328.6720				
<b>Easting (SFT)</b>	1,754,690.2856				
<b>Elevation (SFT)*</b>	219.673				

  

<b>Convergence Angle</b>	0	51	59.8224795
<b>Scale Factor</b>	0.999936944		
<b>Elevation Adjust. Factor</b>	0.9999894925		
<b>Combined Adjust. Factor</b>	0.9999264371		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	135	20.24	66.4
<b>MK # 2</b>	COMBINATION POLE	320	9.86	32.3
<b>MK # 3</b>	EAST END OF SIDEWALK	223	33.25	109.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 39 56.7853560
<b>Longitude</b>	90 30 38.5510320
<b>Ellipsoid Height (M):</b>	39.120 0.0069
<b>Geoid Height (M):</b>	-27.832

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO SOUTHEAST ON HIGHWAY 463 FOR 1.15 MILES TO THE MARK ON THE RIGHT, 53.0 FEET (16.15M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560011A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560011A-1	<b>Date Monumented</b> 7/18/2016	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 308	<b>Job Number:</b> 100840
-----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	136,044.7862	0.0040			
<b>Easting (M)</b>	547,921.1760	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	446,340.2694				
<b>Easting (SFT)</b>	1,797,638.0583				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	56	57.7618985
<b>Scale Factor</b>	0.999936128		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 308 AND STATE HIGHWAY 135, EAST OF MARKED TREE, GO WEST ON HIGHWAY 308 2.6 MILES TO THE MARK ON THE LEFT, SOUTH 18.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19.0 FEET WEST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "560011A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARPG</p> <p>Ref Mon # 2    ARWY</p> <p>Ref Mon # 3    ARJB</p>	<p style="text-align: center;"><b>Comments</b></p> <p>GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG &amp; ARWY IN FINAL STATIC NETWORK ADJUSTMENT.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560012	<b>Date Monumented</b> 6/27/2016	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 463	<b>Job Number:</b> 100615
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	151,442.0207	0.0020	
<b>Easting (M)</b>	532,894.5090	0.0021	
<b>Elevation (M)*</b>	67.379		
<b>Northing (SFT)</b>	496,856.0296		
<b>Easting (SFT)</b>	1,748,338.0683		
<b>Elevation (SFT)*</b>	221.061		

  

<b>Convergence Angle</b>	0	51	15.9255083
<b>Scale Factor</b>	0.999937615		
<b>Elevation Adjust. Factor</b>	0.9999894261		
<b>Combined Adjust. Factor</b>	0.9999270417		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO NORTH ON HIGHWAY 463 FOR 0.85 MILES TO THE MARK ON THE RIGHT, 65.5 FEET (19.96M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560012 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	250	250	19.81	65.0
MK # 2	270	270	10.21	33.5
MK # 3	70	70	5.94	19.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	THE MARK IS 51.0 FEET (15.54M) NORTH OF THE CENTERLINE OF STATE HIGHWAY 214.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560012A	<b>Date Monumented</b> 6/27/2016	<b>Monumented By</b> AHTD	<b>County</b> Poinsett	<b>Route</b> 463	<b>Job Number:</b> 100615
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	151,450.7889	0.0020	
<b>Easting (M)</b>	533,345.1501	0.0021	
<b>Elevation (M)*</b>	67.660		
<b>Northing (SFT)</b>	496,884.7966		
<b>Easting (SFT)</b>	1,749,816.5466		
<b>Elevation (SFT)*</b>	221.981		

  

<b>Convergence Angle</b>	0	51	26.3573559
<b>Scale Factor</b>	0.999937616		
<b>Elevation Adjust. Factor</b>	0.9999893821		
<b>Combined Adjust. Factor</b>	0.9999269987		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 41 22.1229600
<b>Longitude</b>	90 31 36.0612120
<b>Ellipsoid Height (M):</b>	39.805 0.0065
<b>Geoid Height (M):</b>	-27.847

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO NORTH ON HIGHWAY 463 FOR 0.85 MILES TO STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE, THEN GO EAST ON STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE 0.25 MILES TO THE MARK ON THE LEFT, 46.5 FEET (14.17M) NORTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560012A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF STORM MANHOLE	230	7.71	25.3
<b>MK # 2</b>	FIRE HYDRANT	100	29.44	96.6
<b>MK # 3</b>	MONINTERING WELL	65	2.65	8.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	<p>THE MARK IS 44.0 FEET (13.41M) EAST OF THE CENTERLINE OF ROBERTSON ROAD.</p>
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560013	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 118	<b>Job Number:</b> 101017, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	132,042.4048	0.0030	
<b>Easting (M)</b>	549,441.9259	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	433,209.1231		
<b>Easting (SFT)</b>	1,802,627.3852		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	57	31.3455165
<b>Scale Factor</b>	0.999936720		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRRIGATION WELL	183	7.62	25.0
<b>MK # 2</b>	POWER POLE	95	53.95	177.0
<b>MK # 3</b>	POWER POLE	271	53.34	175.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWY	STATIC GPS DERIVED ELEV. 217.9763

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	35 30 44.1488664
<b>Longitude</b>	90 21 8.8250760
<b>Ellipsoid Height (M):</b>	38.749 0.0120
<b>Geoid Height (M):</b>	-27.691 0.0120

Location Description
TO REACH FROM THE INTERSECTION OF INTERSTATE I-555 AND STATE HIGHWAY 118 IN TYRONZA, POINSETT COUNTY, ARKANSAS. TRAVEL EAST ALONG STATE HIGHWAY 118, 2.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET SOUTH OF THE CENTER OF STATE HIGHWAY 118 AND 25 FEET NORTH OF A IRRIGATION WELL. 15 FEET EAST OF THE CENTER OF A DIRT FIELD ENTRANCE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560013A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 118	<b>Job Number:</b> 101017, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	132,037.5123	0.0030	
<b>Easting (M)</b>	549,815.5604	0.0020	
<b>Elevation (M)*</b>	66.796		
<b>Northing (SFT)</b>	433,193.0716		
<b>Easting (SFT)</b>	1,803,853.2177		
<b>Elevation (SFT)*</b>	219.146		

  

<b>Convergence Angle</b>	0	57	39.9710555
<b>Scale Factor</b>	0.999936723		
<b>Elevation Adjust. Factor</b>	0.9999895177		
<b>Combined Adjust. Factor</b>	0.9999262413		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	3.66	12.0
MK # 2	POWER POLE	13	31.70	104.0
MK # 3	EAST END OF 18" METAL CULVERT	300	36.58	120.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    AROC Ref Mon # 3    ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED			

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560014	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 135	<b>Job Number:</b> 101017, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 138,467.0967	<b>0.0040</b>	<b>Geoid Datum:</b> Geoid18
<b>Easting (M)</b> 552,016.1884	<b>0.0040</b>	<b>Latitude</b> 35 34 11.1835776
<b>Elevation (M)*</b>		<b>Longitude</b> 90 19 22.3323852
<b>Northing (SFT)</b> 454,287.4664		<b>Ellipsoid Height (M):</b> 39.278 0.0160
<b>Easting (SFT)</b> 1,811,073.1114		<b>Geoid Height (M):</b> -27.752 0.0160
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 58 33.3135204	<b>Scale Factor</b> 0.999935967	<b>Location Description</b>  TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 140 AND STATE HIGHWAY 135 IN LEPANTO, POINSETT COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 3.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560014, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 65 FEET WEST OF THE CENTER OF STATE HIGHWAY 135 AND 3 FEET EAST OF A WITNESS POST AND 30 FEET NORTH OF THE CENTERLINE OF POINSETT COUNTY ROAD NUMBER 86 (ALTO RD).
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> POWER POLE	162	18.90	62.0	<b>Geodetic Azimuth</b>
<b>MK # 2</b> IRRIGATION WELL	185	26.82	88.0	<b>Grid Azimuth</b>
<b>MK # 3</b> POWER POLE	9	64.31	211.0	

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWY	<b>Comments</b> STATIC GPS DERIVED ELEV. 219.9146
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560014A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 135	<b>Job Number:</b> 101017, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	138,449.2087	0.0040			
<b>Easting (M)</b>	552,392.9370	0.0040			
<b>Elevation (M)*</b>	67.034				
<b>Northing (SFT)</b>	454,228.7789				
<b>Easting (SFT)</b>	1,812,309.1608				
<b>Elevation (SFT)*</b>	219.928				

  

<b>Convergence Angle</b>	0	58	42.0119765
<b>Scale Factor</b>	0.999935968		
<b>Elevation Adjust. Factor</b>	0.9999894803		
<b>Combined Adjust. Factor</b>	0.9999254489		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE PEDESTAL	182	3.66	12.0
<b>MK # 2</b>	POWER POLE	11	14.94	49.0
<b>MK # 3</b>	N. W. COR. BLOCK ENCLOSURE AROUND FUEL TANK	115	31.39	103.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS #560014, WHOSE ELEVATION IS STATIC GPS DERIVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #560014, WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #560014, WHOSE ELEVATION IS STATIC GPS DERIVED			

  

Location Description
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 140 AND STATE HIGHWAY 135 IN LEPANTO, POINSETT COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 3.4 MILES TO POINSETT COUNTY ROAD NUMBER , THEN TRAVEL EAST ALONG POINSETT COUNTY ROAD NUMBER 86 (ALTO RD) TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 25 FEET SOUTH OF THE CENTER OF POINSETT COUNTY ROAD NUMBER 86 AND 2 FEET NORTH OF A WITNESS POST. NEAR END OF PRIVATE AIR STRIP RUNNING NORTH AND SOUTH.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560015	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 135	<b>Job Number:</b> 101012, AIRBORNE 2020
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	151,306.1406	0.0020			
<b>Easting (M)</b>	550,127.5952	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	496,410.2296				
<b>Easting (SFT)</b>	1,804,876.9519				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	57	54.6718308
<b>Scale Factor</b>	0.999937499		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	270	3.35	11.0
MK # 2	POWER POLE	72	25.91	85.0
MK # 3	TELEPHONE PEDESTAL	358	27.74	91.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AROC Ref Mon # 2    ARPG Ref Mon # 3    ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           STATIC GPS DERIVED ELEV. 220.1971         </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. 220.1971
Comments			
STATIC GPS DERIVED ELEV. 220.1971			

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	35 41 8.7694692
<b>Longitude</b>	90 20 28.7385504
<b>Ellipsoid Height (M):</b>	39.272 0.0080
<b>Geoid Height (M):</b>	-27.845 0.0080

Location Description
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 158 AND STATE HIGHWAY 135 IN CARAWAY, CRAIGHEAD COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 5.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560015, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET WEST OF THE CENTER OF HIGHWAY 135 AND 10 FEET EAST OF A WITNESS POST AND 115 FEET SOUTH OF THE CENTERLINE OF POINSETT COUNTY, DITCH 57 ROAD. ACROSS HWY 135 (WEST) OF A SINGLE WIDE MOBILE HOME.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560015A	<b>Date Monumented</b> 12/4/2019	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 135	<b>Job Number:</b> 101012, AIRBORNE 2020
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	151,741.4218    0.0020
<b>Easting (M)</b>	550,121.9780    0.0020
<b>Elevation (M)*</b>	67.107

  

<b>Northing (SFT)</b>	497,838.3147	
<b>Easting (SFT)</b>	1,804,858.5228	
<b>Elevation (SFT)*</b>	220.167	

  

<b>Convergence Angle</b>	0	57	54.7115447
<b>Scale Factor</b>	0.999937623		
<b>Elevation Adjust. Factor</b>	0.9999894688		
<b>Combined Adjust. Factor</b>	0.9999270925		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 158 AND STATE HIGHWAY 135 IN CARAWAY, CRAIGHEAD COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 4.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560015A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 38 FEET WEST OF THE CENTER OF STATE HIGHWAY 135, AND 6 FEET EAST OF A WITNESS POST. 40 FEET SOUTH OF THE CENTER OF A DIRT FIELD ENTRANCE.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	272	2.13	7.0
MK # 2	SOUTH END OF A 18" METAL CULVERT	16	7.01	23.0
MK # 3	PLASTIC UTILITY MARKER (RITTER COM.)	101	22.25	73.0

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    AROC</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    ARWY</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM GPS #560015 WHOSE ELEVATION IS STATIC GPS DERIVED</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570001	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 40029
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	584,952.4039	
<b>Easting (M)</b>	184,122.0610	
<b>Elevation (M)*</b>	322.628	
<b>Northing (SFT)</b>	1,919,131.3451	
<b>Easting (SFT)</b>	604,073.7951	
<b>Elevation (SFT)*</b>	1,058.489	

  

<b>Convergence Angle</b>	-1	18	46.3235691
<b>Scale Factor</b>	0.999930158		
<b>Elevation Adjust. Factor</b>	0.9999493717		
<b>Combined Adjust. Factor</b>	0.9998795332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GAS METER	178	14.57	47.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 HELMPORT	
Ref Mon # 2 MENAPORT	
Ref Mon # 3 GILLHAM	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 18 42.8833296
<b>Longitude</b>	94 20 44.5278084
<b>Ellipsoid Height (M):</b>	293.049
<b>Geoid Height (M):</b>	-29.579

Location Description
<p>FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 1.07 KM (0.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.29 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 71 AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570001A	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 40029
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	584,280.3299	
<b>Easting (M)</b>	184,562.7480	
<b>Elevation (M)*</b>	319.157	
<b>Northing (SFT)</b>	1,916,926.3823	
<b>Easting (SFT)</b>	605,519.6157	
<b>Elevation (SFT)*</b>	1,047.101	

  

<b>Convergence Angle</b>	-1	18	36.3423695
<b>Scale Factor</b>	0.999929660		
<b>Elevation Adjust. Factor</b>	0.9999499164		
<b>Combined Adjust. Factor</b>	0.9998795799		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	328	42.40	139.1
MK # 2	COMBINATION POLE	141	22.23	72.9
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HELMPORT <b>Ref Mon # 2</b> MENAPORT <b>Ref Mon # 3</b> GILLHAM	

  

Location Description			
FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 0.27 KM (0.17 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.119 METERS EAST NORTHEAST OF THE CENTERLINE OF HWY. 71 AND 0.50 METERS WEST SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.			

  

<b>AZ Mark Station</b>	570001
<b>Geodetic Azimuth</b>	325 26 11.89421
<b>Grid Azimuth</b>	326 44 48.20137

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570002	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398, 040353
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	627,330.5644	
<b>Easting (M)</b>	184,445.7327	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,058,167.0267	
<b>Easting (SFT)</b>	605,135.7080	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	0.5596729
<b>Scale Factor</b>	0.999984589		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (8.67 MI) TO THE JUNCTION OF STATE HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 270 FOR 1.42 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.95 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: Q 299</p> <p>Ref Mon # 2: MENAPORT AZ MK</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570002A	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398, 040353
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	627,000.8639	
<b>Easting (M)</b>	185,016.4228	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,057,085.3343	
<b>Easting (SFT)</b>	607,008.0471	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	47.8470489
<b>Scale Factor</b>	0.999984017		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (0.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.97 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    MENAPORT AZ MK</p> <p>Ref Mon # 3    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570003	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040353
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	625,652.1704	
<b>Easting (M)</b>	189,280.0255	
<b>Elevation (M)*</b>	446.371	
<b>Northing (SFT)</b>	2,052,660.4957	
<b>Easting (SFT)</b>	620,996.2170	
<b>Elevation (SFT)*</b>	1,464.469	

  

<b>Convergence Angle</b>	-1	17	13.4490253
<b>Scale Factor</b>	0.999981781		
<b>Elevation Adjust. Factor</b>	0.9999299547		
<b>Combined Adjust. Factor</b>	0.9999117370		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 10.22 KM (6.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS NORTH OF A CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570003 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 495.380 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: Q 299</p> <p>Ref Mon # 2: MENAPORT AZ MK</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 WIRE LEVELS FROM H 58</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570003A	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040353
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	625,375.4057	
<b>Easting (M)</b>	189,690.8432	
<b>Elevation (M)*</b>	436.709	
<b>Northing (SFT)</b>	2,051,752.4769	
<b>Easting (SFT)</b>	622,344.0414	
<b>Elevation (SFT)*</b>	1,432.769	

  

<b>Convergence Angle</b>	-1	17	4.2823134
<b>Scale Factor</b>	0.999981308		
<b>Elevation Adjust. Factor</b>	0.9999314708		
<b>Combined Adjust. Factor</b>	0.9999127801		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF A CONCRETE HEADWALL	106	10.75	35.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> MENAPORT AZ MK	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 40 38.5326228
<b>Longitude</b>	94 17 42.2105784
<b>Ellipsoid Height (M):</b>	406.316
<b>Geoid Height (M):</b>	-30.472

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.12 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570003A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 495.380 METERS.</p>

<b>AZ Mark Station</b>	570003
<b>Geodetic Azimuth</b>	302 41 00.01106
<b>Grid Azimuth</b>	303 58 04.21742

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570004	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040353
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	623,090.3347	
<b>Easting (M)</b>	193,466.7931	
<b>Elevation (M)*</b>	385.725	
<b>Northing (SFT)</b>	2,044,255.5398	
<b>Easting (SFT)</b>	634,732.3037	
<b>Elevation (SFT)*</b>	1,265.499	

  

<b>Convergence Angle</b>	-1	15	40.1779458
<b>Scale Factor</b>	0.999977486		
<b>Elevation Adjust. Factor</b>	0.9999394708		
<b>Combined Adjust. Factor</b>	0.9999169582		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 5.23 KM (3.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 15.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570004 2000" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 419.099 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 58.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	298	20.90	68.6
MK # 2	EAST END OF A CMP	280	27.00	88.6
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="Q 299"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="MENAPORT AZ MK"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570004A	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040353
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	623,082.4413	
<b>Easting (M)</b>	193,885.7882	
<b>Elevation (M)*</b>	383.838	
<b>Northing (SFT)</b>	2,044,229.6428	
<b>Easting (SFT)</b>	636,106.9568	
<b>Elevation (SFT)*</b>	1,259.309	

  

<b>Convergence Angle</b>	-1	15	30.9664148
<b>Scale Factor</b>	0.999977488		
<b>Elevation Adjust. Factor</b>	0.9999397669		
<b>Combined Adjust. Factor</b>	0.9999172563		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299 <b>Ref Mon # 2</b> MENAPORT AZ MK <b>Ref Mon # 3</b>	

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    34    39    27.1600884

**Longitude**    94    14    55.4829540

**Ellipsoid Height (M):**    353.538   

**Geoid Height (M):**    -30.323

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 4.83 KM (3.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.52 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570004A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 419.099 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS H 58.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570005	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040353
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	620,501.9659	
<b>Easting (M)</b>	197,915.3763	
<b>Elevation (M)*</b>	331.346	
<b>Northing (SFT)</b>	2,035,763.5331	
<b>Easting (SFT)</b>	649,327.3637	
<b>Elevation (SFT)*</b>	1,087.091	

  

<b>Convergence Angle</b>	-1	14	1.1912540
<b>Scale Factor</b>	0.999973304		
<b>Elevation Adjust. Factor</b>	0.9999480037		
<b>Combined Adjust. Factor</b>	0.9999213091		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.35 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	271	0.65	2.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="Q 299"/>	
Ref Mon # 2 <input type="text" value="MENAPORT AZ MK"/>	
Ref Mon # 3 <input type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570005A	<b>Date Monumented</b> 8/16/2000	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040353
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	621,139.1483	
<b>Easting (M)</b>	197,978.4876	
<b>Elevation (M)*</b>	331.132	
<b>Northing (SFT)</b>	2,037,854.0224	
<b>Easting (SFT)</b>	649,534.4214	
<b>Elevation (SFT)*</b>	1,086.389	

  

<b>Convergence Angle</b>	-1	14	0.1060845
<b>Scale Factor</b>	0.999974361		
<b>Elevation Adjust. Factor</b>	0.9999480373		
<b>Combined Adjust. Factor</b>	0.9999223996		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS EAST OF THE CENTER OF COUNTY ROAD 114, 10.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	288	7.75	25.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 299</p> <p><b>Ref Mon # 2</b>    MENAPORT AZ MK</p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570006	<b>Date Monumented</b> 4/2/2002	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 030249
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,736.4709	
<b>Easting (M)</b>	186,262.4060	
<b>Elevation (M)*</b>	226.867	
<b>Northing (SFT)</b>	1,875,772.0716	
<b>Easting (SFT)</b>	611,095.9104	
<b>Elevation (SFT)*</b>	744.313	

  

<b>Convergence Angle</b>	-1	17	52.9261237
<b>Scale Factor</b>	0.999922296		
<b>Elevation Adjust. Factor</b>	0.9999643984		
<b>Combined Adjust. Factor</b>	0.9998866972		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	23	5.00	16.4
<b>MK # 2</b>	WOODEN FENCE POST	144	3.40	11.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DEQUEEN CORS 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> HOCHATOWN	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 11 35.6384004
<b>Longitude</b>	94 19 9.1225308
<b>Ellipsoid Height (M):</b>	198.599
<b>Geoid Height (M):</b>	-28.268

Location Description
<p>TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM , GO NORTH ON U.S. HIGHWAY 71 FOR 0.14 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 5.23 METERS WEST OF A BARB WIRE FENCE LINE, AND 0.92 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "570006 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5102 FROM NOAA BENCH MARK H 302.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570007	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	628,841.6809		
<b>Easting (M)</b>	175,612.3320		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,063,124.7481		
<b>Easting (SFT)</b>	576,154.7926		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	22	15.5499022
<b>Scale Factor</b>	0.999986969		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	120	11.70	38.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 DeQueen CORS 1	
Ref Mon # 2 AHTD HOP1	
Ref Mon # 3 Russport	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 42 20.4033672
<b>Longitude</b>	94 26 58.3527408
<b>Ellipsoid Height (M):</b>	351.642
<b>Geoid Height (M):</b>	-30.887

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS OKLAHOMA STATE LINE AND STATE HIGHWAY 270, GO EAST ON 270 0.30 MILES TO THE STATION ON THE RIGHT. 14.0 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 3.55 METERS NORTH OF A WITNESS POST. THE CAP IS A STANDARD 64mm CAP STAMPED "570007 2003" ON TOP OF A 1.10 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570007A	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,772.8190	
<b>Easting (M)</b>	176,187.8980	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,062,898.8237	
<b>Easting (SFT)</b>	578,043.1287	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	2.8586300
<b>Scale Factor</b>	0.999986868		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	570007
<b>Geodetic Azimuth</b>	275 27 18
<b>Grid Azimuth</b>	276 49 21

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> DeQueen CORS 1	
<b>Ref Mon # 2</b> AHTD HOP1	
<b>Ref Mon # 3</b> Russport	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570008	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,419.6390	
<b>Easting (M)</b>	179,832.8970	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,061,740.0990	
<b>Easting (SFT)</b>	590,001.7629	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	42.5324184
<b>Scale Factor</b>	0.999986377		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HEAD WALL	108	17.00	55.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 DeQueen CORS 1	
Ref Mon # 2 AHTD HOP1	
Ref Mon # 3 Russport	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 42 9.9573264
<b>Longitude</b>	94 24 12.1582944
<b>Ellipsoid Height (M):</b>	394.927
<b>Geoid Height (M):</b>	-30.777

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 3.40 MILES TO THE STATION ON THE RIGHT. 36.1 METERS WEST OF A GRAVEL ROAD CROSSING THE RAIL ROAD, 15.9 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.7 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008 2003" ON TOP OF A 1.05 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570008A	<b>Date Monumented</b> 1/21/2003	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 270	<b>Job Number:</b> 040398
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,364.6410	
<b>Easting (M)</b>	180,220.9350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,061,559.6597	
<b>Easting (SFT)</b>	591,274.8509	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	33.9723807
<b>Scale Factor</b>	0.999986293		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 FOR 3.1 MILES TO THE STATION ON THE RIGHT. 9.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.80 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    DeQueen CORS 1</p> <p><b>Ref Mon # 2</b>    AHTD HOP1</p> <p><b>Ref Mon # 3</b>    Russport</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570009	<b>Date Monumented</b> 11/15/2004	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040444
--------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	613,952.8069	
<b>Easting (M)</b>	194,545.6530	
<b>Elevation (M)*</b>	343.060	
<b>Northing (SFT)</b>	2,014,276.8340	
<b>Easting (SFT)</b>	638,271.8632	
<b>Elevation (SFT)*</b>	1,125.523	

  

<b>Convergence Angle</b>	-1	15	12.0758487
<b>Scale Factor</b>	0.999962937		
<b>Elevation Adjust. Factor</b>	0.9999461656		
<b>Combined Adjust. Factor</b>	0.9999091046		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF CONCRETE BOX	91	18.30	60.0
<b>MK # 2</b>	TELEPHONE RISER	157	20.60	67.6
<b>MK # 3</b>	WESTERN MOST GUARD RAIL POST	33	20.90	68.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> NEANAPORT AZ <b>Ref Mon # 2</b> SAL 1 <b>Ref Mon # 3</b> DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.
Comments			
3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.60 MILES TO THE STATION ON THE LEFT, 14.0 METERS NORTHWEST OF THE CENTERLINE OF PINE STREET AND SOUTHEAST OF THE CENTERLINE OF 71 12.30 METERS, AND NORTHWEST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    34    31.4182200
<b>Longitude</b>	94    14    21.7311576
<b>Ellipsoid Height (M):</b>	313.037
<b>Geoid Height (M):</b>	-30.023

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570009A	<b>Date Monumented</b> 11/15/2004	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040444
---------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,390.3169	
<b>Easting (M)</b>	194,563.1740	
<b>Elevation (M)*</b>	350.206	
<b>Northing (SFT)</b>	2,015,712.2314	
<b>Easting (SFT)</b>	638,329.3467	
<b>Elevation (SFT)*</b>	1,148.968	

  

<b>Convergence Angle</b>	-1	15	11.9013272
<b>Scale Factor</b>	0.999963589		
<b>Elevation Adjust. Factor</b>	0.9999450443		
<b>Combined Adjust. Factor</b>	0.9999086353		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	C/L MANHOLE	225	14.20	46.6
<b>MK # 2</b>	TELEPHONE RISER	279	19.20	63.0
<b>MK # 3</b>	COMBINATION POLE	351	17.10	56.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="NEANAPORT AZ"/> <b>Ref Mon # 2</b> <input type="text" value="SAL 1"/> <b>Ref Mon # 3</b> <input type="text" value="DQUA"/>	3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 34 45.6258828
<b>Longitude</b>	94 14 21.4193400
<b>Ellipsoid Height (M):</b>	320.166
<b>Geoid Height (M):</b>	-30.040

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.35 MILES TO THE STATION ON THE RIGHT, NORTH OF THE CENTERLINE OF 10th STREET 16.25 METERS, AND WEST OF THE CENTERLINE OF 71 13.30 METERS, AND EAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570010	<b>Date Monumented</b> 6/19/2007	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040488
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	591,660.5539	
<b>Easting (M)</b>	180,815.3760	
<b>Elevation (M)*</b>	328.288	
<b>Northing (SFT)</b>	1,941,139.6673	
<b>Easting (SFT)</b>	593,225.1128	
<b>Elevation (SFT)*</b>	1,077.059	

  

<b>Convergence Angle</b>	-1	20	2.1111220
<b>Scale Factor</b>	0.999935739		
<b>Elevation Adjust. Factor</b>	0.9999484835		
<b>Combined Adjust. Factor</b>	0.9998842259		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	242	3.96	13.0
<b>MK # 2</b>	GAS METER	181	40.54	133.0
<b>MK # 3</b>	LIGHT POLE	270	30.78	101.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MENAPORT AZ	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.
<b>Ref Mon # 2</b> DQUA	
<b>Ref Mon # 3</b> OKHV	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 22 18.0629688
<b>Longitude</b>	94 22 59.9375172
<b>Ellipsoid Height (M):</b>	298.957
<b>Geoid Height (M):</b>	-29.329

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 32.4 FEET AND NORTHEAST 13.0 FEET OF A WITNESS POST. THE STATION MAK IS A STANDARD 2 1/2 INCH CAP STAMPED "570010 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570010A	<b>Date Monumented</b> 6/19/2007	<b>Monumented By</b> AHTD	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040488
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	591,117.4288	
<b>Easting (M)</b>	181,136.0360	
<b>Elevation (M)*</b>	339.243	
<b>Northing (SFT)</b>	1,939,357.7643	
<b>Easting (SFT)</b>	594,277.1448	
<b>Elevation (SFT)*</b>	1,112.999	

  

<b>Convergence Angle</b>	-1	19	54.8117625
<b>Scale Factor</b>	0.999935248		
<b>Elevation Adjust. Factor</b>	0.9999467646		
<b>Combined Adjust. Factor</b>	0.9998820160		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	249	25.66	84.2
<b>MK # 2</b>	GAS METER	340	31.49	103.3
<b>MK # 3</b>	LIGHT POLE	91	18.29	60.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="MENAPORT AZ"/> <b>Ref Mon # 2</b> <input type="text" value="DQUA"/> <b>Ref Mon # 3</b> <input type="text" value="OKHV"/>	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570011	<b>Date Monumented</b> 6/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040787
--------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	622,220.1825    0.0020
<b>Easting (M)</b>	202,028.3395    0.0020
<b>Elevation (M)*</b>	336.765

  

<b>Northing (SFT)</b>	2,041,400.7154	
<b>Easting (SFT)</b>	662,821.3105	
<b>Elevation (SFT)*</b>	1,104.871	

  

<b>Convergence Angle</b>	-1	12	31.6247488
<b>Scale Factor</b>	0.999976319		
<b>Elevation Adjust. Factor</b>	0.9999471533		
<b>Combined Adjust. Factor</b>	0.9999234736		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**  
  
 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 37.6' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	243	23.65	77.6
MK # 2	UC MARKER	230	21.34	70.0
MK # 3	C/L HDWL	262	24.38	80.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARGS	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.
Ref Mon # 2    ARHP	
Ref Mon # 3    ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570011A	<b>Date Monumented</b> 6/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040787
---------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	622,415.1063 0.0030
<b>Easting (M)</b>	202,359.4332 0.0030
<b>Elevation (M)*</b>	333.962

  

<b>Northing (SFT)</b>	2,042,040.2279	
<b>Easting (SFT)</b>	663,907.5738	
<b>Elevation (SFT)*</b>	1,095.674	

  

<b>Convergence Angle</b>	-1	12	24.4393473
<b>Scale Factor</b>	0.999976662		
<b>Elevation Adjust. Factor</b>	0.9999475932		
<b>Combined Adjust. Factor</b>	0.9999242564		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.65 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 39.3' OF THE C/L OF THE HIGHWAY AND NORTHEAST 76' OF THE C/L OF POLK COUNTY ROAD 45. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
<b>MK # 1</b> POWER POLE W/2 GUYS AND TRANSFORM	208	30.78	101.0	570011
<b>MK # 2</b> POWER POLE W/ TELEPHONE BOX	57	4.51	14.8	
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570012	<b>Date Monumented</b> 2/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> CR 192	<b>Job Number:</b> 040789
--------------------------	-------------------------------------	-------------------------------	-----------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	614,997.3066	0.0040	
<b>Easting (M)</b>	208,286.6294	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,017,703.6634		
<b>Easting (SFT)</b>	683,353.7166		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	10	10.8591079
<b>Scale Factor</b>	0.999964940		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TELEPHONE B	30	14.17	46.5
MK # 2	CENTER OF GATE	275	36.88	121.0
MK # 3	FENCE CORNER	101	6.22	20.4

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARDQ	
Ref Mon # 2: ARFS	
Ref Mon # 3: ARGS, ARHP	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 35 14.7366924
<b>Longitude</b>	94 5 23.5468572
<b>Ellipsoid Height (M):</b>	260.383 0.0120
<b>Geoid Height (M):</b>	-29.787 0.0120

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 7.0 MILES TO COUNTY ROAD 192 ON THE LEFT. TURN LEFT (NORTH) ON cr 192 AND GO 0.15 MILES TO THE MARK ON THE LEFT, WEST 36' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570012A	<b>Date Monumented</b> 2/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> 88	<b>Job Number:</b> 040789
---------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	614,736.4799	0.0040	
<b>Easting (M)</b>	208,017.7014	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,016,847.9345		
<b>Easting (SFT)</b>	682,471.4087		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	10	16.6471917
<b>Scale Factor</b>	0.999964537		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	70	13.59	44.6
MK # 2	WOODEN FENCE POST	298	11.28	37.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARDQ Ref Mon # 2    ARFS Ref Mon # 3    ARGS, ARHP	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    35    6.0955260
<b>Longitude</b>	94    5    33.8884332
<b>Ellipsoid Height (M):</b>	256.085    0.0110
<b>Geoid Height (M):</b>	-29.785    0.0110

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 6.85 MILES TO THE MARK ON THE LEFT, NORTH 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570013	<b>Date Monumented</b> 2/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> 88	<b>Job Number:</b> 040789
--------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	614,672.2751	0.0040	
<b>Easting (M)</b>	215,892.0989	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,016,637.2892		
<b>Easting (SFT)</b>	708,305.9945		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	7	23.7136747
<b>Scale Factor</b>	0.999964678		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	8	4.05	13.3
MK # 2	POWER POLE	48	4.66	15.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARDQ  Ref Mon # 2    ARFS  Ref Mon # 3    ARGS, ARHP	<b>Comments</b>          
---	---

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    34    35    9.1289868

**Longitude**    94    0    24.9079176

**Ellipsoid Height (M):**    251.069    0.0110

**Geoid Height (M):**    -29.552    0.0110

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 11.95 MILES TO THE MARK ON THE LEFT, NORTH 30.8' OF THE C/L OF THE HIGHWAY AND EAST 17.9' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570013A	<b>Date Monumented</b> 2/25/2020	<b>Monumented By</b> ARDOT	<b>County</b> POLK	<b>Route</b> 88	<b>Job Number:</b> 040789
---------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	614,635.1366	0.0040			
<b>Easting (M)</b>	216,345.1663	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,016,515.4440				
<b>Easting (SFT)</b>	709,792.4331				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	7	13.7491725
<b>Scale Factor</b>	0.999964635		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ GUY	288	25.54	83.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARGS, ARHP</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFS	Ref Mon # 3	ARGS, ARHP	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARDQ						
Ref Mon # 2	ARFS						
Ref Mon # 3	ARGS, ARHP						

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 18		
<b>Latitude</b>	34	35	8.2118364
<b>Longitude</b>	94	0	7.1043300
<b>Ellipsoid Height (M):</b>	242.898	0.0110	
<b>Geoid Height (M):</b>	-29.538	0.0110	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 12.2 MILES TO THE MARK ON THE LEFT, NORTH 41.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570014	<b>Date Monumented</b> 1/5/2021	<b>Monumented By</b> AHTD	<b>County</b> Polk	<b>Route</b> 71	<b>Job Number:</b> 04X099
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	602,110.7107	0.0030			
<b>Easting (M)</b>	180,623.0418	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,975,424.8900				
<b>Easting (SFT)</b>	592,594.0963				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	20	11.6633804
<b>Scale Factor</b>	0.999946737		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF A METAL GATE	115	9.14	30.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS, ARFY	
<b>Ref Mon # 3</b> ARRV, OKMC	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    27    56.9833848
<b>Longitude</b>	94    23    17.0045484
<b>Ellipsoid Height (M):</b>	242.587    0.0140
<b>Geoid Height (M):</b>	-30.046    0.0140

Location Description
<p>FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 246 WEST IN HATFIELD.AR , GO SOUTH ON US HWY. 71 FOR 1.65 MILES TO THE STATION ON THE LEFT. THE POINT IS 29.7' SOUTHEAST OF THE CL OF US HWY. 71, 16' NORTH OF THE SOUTH END OF A 18" CMP</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 570014A	<b>Date Monumented</b> 1/5/2021	<b>Monumented By</b> AHTD	<b>County</b> Polk	<b>Route</b> 71	<b>Job Number:</b> 04X099
---------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	601,807.9705	0.0030	
<b>Easting (M)</b>	180,358.3438	0.0030	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	1,974,431.6499		
<b>Easting (SFT)</b>	591,725.6663		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	20	17.3119252
<b>Scale Factor</b>	0.999946373		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	267	10.73	35.2
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	570014
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 ARRV, OKMC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580001	<b>Date Monumented</b> 6/4/1990	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> R80072, 8971
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 108,655.6166		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 293,405.1426		<b>Latitude</b> 35 18 25.2418752
<b>Elevation (M)*</b> 109.949		<b>Longitude</b> 93 10 19.7692644
<b>Northing (SFT)</b> 356,480.9688		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 962,613.3720		<b>Geoid Height (M):</b> -29.750
<b>Elevation (SFT)*</b> 360.724		

  

<b>Convergence Angle</b> 0 40 55.4800555	<b>Location Description</b>  FROM RUSSELLVILLE GO WEST ON HWY. 64 0.35 MILES NORTH OF THE BRIDGE OVER THE RAILROAD. THE STATION IS 0.22 FEET EAST OF THE CENTERLINE OF HWY. 64, 2.5 FEET EAST OF A GUARDRAIL AND 1.5 FEET WEST OF A WITNESS POST.
<b>Scale Factor</b> 0.999947575	
<b>Elevation Adjust. Factor</b> 0.9999827457	
<b>Combined Adjust. Factor</b> 0.9999303216	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN END OF BOLT GUARDRAI	145	2.16	7.1
<b>MK # 2</b>	PUNCH POINT IN END OF BOLT GUARDRAI	295	1.95	6.4
<b>MK # 3</b>	PUNCH POINT IN END OF BOLT GUARDRAI	315	5.65	18.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEBO	Old point number 90580001
<b>Ref Mon # 2</b> BROWN	
<b>Ref Mon # 3</b> FURGERSON	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580002	<b>Date Monumented</b> 6/4/1990	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 326	<b>Job Number:</b> R80072, 8971
--------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 108,456.5981		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 293,854.9359		<b>Latitude</b> 35 18 18.9575928
<b>Elevation (M)*</b> 109.554		<b>Longitude</b> 93 10 1.8715872
<b>Northing (SFT)</b> 355,828.0223		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 964,089.0689		<b>Geoid Height (M):</b> -29.746
<b>Elevation (SFT)*</b> 359.428		

  

<b>Convergence Angle</b> 0 40 45.0654127	<b>Scale Factor</b> 0.999947722	<b>Location Description</b> FROM RUSSELLVILLE GO WEST ON HWY. 64 TO THE JCT. OF HWY. 326, THEN RIGHT 0.20 MILES TO A PARKING AREA OVERLOOKING THE LAKE. THE STATION IS BEHIND THE NORTHWEST CORNER OF A GUARDRAIL, 3 FEET FROM THE RAIL, 64 FEET NORTH OF THE CENTERLINE OF HWY. 326 AND 2 FEET SOUTHEAST OF WITNESS POST.
<b>Elevation Adjust. Factor</b> 0.9999828077	<b>Combined Adjust. Factor</b> 0.9999305306	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	75	2.71	8.9
<b>MK # 2</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	175	2.27	7.4
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> NEBO	Old point number 90580002
<b>Ref Mon # 2</b> BROWN	
<b>Ref Mon # 3</b> FURGERSON	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580003	<b>Date Monumented</b> 6/4/1990	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> 8971
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 105,479.5671		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 296,615.8130		<b>Latitude</b> 35 16 43.4078472
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 8 11.2288632
<b>Northing (SFT)</b> 346,060.8797		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 973,147.0465		<b>Geoid Height (M):</b> -29.726
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 39 40.6825081	<b>Location Description</b> AT RUSSELLVILLE ON MAIN STREET, ON THE SOUTHWEST CORNER OF THE INTERSECTION OF MAIN AND SOUTH DENVER STREETS IN A CRACK IN A CONCRETE AREA BETWEEN THE EDGE OF THE PAVEMENT AND THE PARKING LOT OF RAY PONTIAC. THE STATION IS 35 FEET SOUTH OF THE CENTERLINE OF HWY. 64 AND 18 FEET WEST OF THE CURB.
<b>Scale Factor</b> 0.999950070	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	185	2.27	7.4
MK # 2	NBC IN LIGHT POLE	288	22.39	73.4
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 NEBO	Old point number 90580003
Ref Mon # 2 BROWN	
Ref Mon # 3 FURGERSON	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580004	<b>Date Monumented</b> 6/4/1990	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> 8971
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 105,185.2041		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 296,547.4740		<b>Latitude</b> 35 16 33.8308212
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 8 13.7984784
<b>Northing (SFT)</b> 345,095.1238		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 972,922.8376		<b>Geoid Height (M):</b> -29.728
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 39 42.1777650	<b>Location Description</b> AT RUSSELLVILLE ON SOUTH DENVER STREET. THE STATION IS 16 FEET WEST OF THE CENTERLINE OF SOUTH DENVER STREET, 102.5 FEET SOUTH OF WEST 3RD STREET, 195 FEET NORTH OF WEST 4TH STREET IN FRONT OF THE ARKANSAS STATE REVENUE OFFICE, DRIVER CONTROL, DEPARTMENT OF FINANCE & ADMINISTRATION, 1.7 FEET BACK OF THE CURB AND 2.7 FEET WEST OF A WITNESS POST.
<b>Scale Factor</b> 0.999950317	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	20	24.67	80.9
MK # 2	NBC IN TELEPHONE POLE	164	13.52	44.3
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 NEBO	Old point number 90580004
Ref Mon # 2 BROWN	
Ref Mon # 3 FURGERSON	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580005	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900,080427
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	109,012.5622	
<b>Easting (M)</b>	299,833.8019	
<b>Elevation (M)*</b>	135.169	
<b>Northing (SFT)</b>	357,652.0478	
<b>Easting (SFT)</b>	983,704.7317	
<b>Elevation (SFT)*</b>	443.466	

  

<b>Convergence Angle</b>	0	38	27.4965501
<b>Scale Factor</b>	0.999947251		
<b>Elevation Adjust. Factor</b>	0.9999787881		
<b>Combined Adjust. Factor</b>	0.9999260402		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	18	39.2454684
<b>Longitude</b>	93	6	5.4521496
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	109,012.9620		
<b>Grid Easting (Meters)</b>	299,833.9540		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	130	3.40	11.2
MK # 2	NORTHERN MOST TELEPHONE BOX	177	15.85	52.0
MK # 3	14" CATALPA TREE	40	20.40	66.9

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> FURGERSON <b>Ref Mon # 3</b> NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.</td> </tr> </table>	Comments	Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.
Comments			
Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.			

  

Location Description
FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 1.56 KM (0.97 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF THE CENTERLINE OF HWY. 124, 30.0 METERS NORTH OF THE NORTHERN MOST DRIVEWAY TO A CHURCH, 28.8 METERS SOUTH OF A GRAVEL DRIVEWAY AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND

  

<b>AZ Mark Station</b>	580005A	
<b>Geodetic Azimuth</b>	182 04 42.80462	
<b>Grid Azimuth</b>	182 43 10.29901	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580005A	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900,080427
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,568.9177	
<b>Easting (M)</b>	299,812.7255	
<b>Elevation (M)*</b>	148.710	
<b>Northing (SFT)</b>	356,196.5242	
<b>Easting (SFT)</b>	983,635.5836	
<b>Elevation (SFT)*</b>	487.893	

  

<b>Convergence Angle</b>	0	38	27.8676924
<b>Scale Factor</b>	0.999947584		
<b>Elevation Adjust. Factor</b>	0.9999766631		
<b>Combined Adjust. Factor</b>	0.9999242483		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	18	24.8423112
<b>Longitude</b>	93	6	6.0898284
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	108,569.3111		
<b>Grid Easting (Meters)</b>	299,812.8810		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CONCRETE PIPE	356	12.70	41.7
MK # 2	F.A.S. MARKER #1171	62	30.00	98.4
MK # 3	NONE			

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> FURGERSON <b>Ref Mon # 3</b> NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.</td> </tr> </table>	Comments	Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.
Comments			
Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.			

  

Location Description	
FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 1.158 KM (0.72 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.20 METERS EAST OF THE CENTERLINE OF HWY. 124, 23.0 METERS SOUTH OF A PAVED STREET AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580005A" SET ON TOP OF A 3/4" REBAR ROD 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	580005
<b>Geodetic Azimuth</b>	2 04 42.436036
<b>Grid Azimuth</b>	2 43 10.299009

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580006	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900,080427
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,346.0385	
<b>Easting (M)</b>	303,364.7914	
<b>Elevation (M)*</b>	131.892	
<b>Northing (SFT)</b>	365,307.7946	
<b>Easting (SFT)</b>	995,289.3198	
<b>Elevation (SFT)*</b>	432.717	

  

<b>Convergence Angle</b>	0	37	6.7410081
<b>Scale Factor</b>	0.999945551		
<b>Elevation Adjust. Factor</b>	0.9999793022		
<b>Combined Adjust. Factor</b>	0.9999248543		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	F.A.S. MARKER #243	50	1.15	3.8
<b>MK # 2</b>	18" METAL PIPE	260	19.00	62.3
<b>MK # 3</b>	WOODEN FENCE CORNER POST	245	17.80	58.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> FURGERSON	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	35 19 56.2081080
<b>Longitude</b>	93 3 46.6787160
<b>Ellipsoid Height (M):</b>	102.975
<b>Geoid Height (M):</b>	-28.919

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 6.63 KM (4.12 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 21.7 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND</p>

<b>AZ Mark Station</b>	580006A
<b>Geodetic Azimuth</b>	69 18 12.98597
<b>Grid Azimuth</b>	69 55 19.693979

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580006A	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900,080427
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,501.8215	
<b>Easting (M)</b>	303,790.9843	
<b>Elevation (M)*</b>	138.217	
<b>Northing (SFT)</b>	365,818.8927	
<b>Easting (SFT)</b>	996,687.5877	
<b>Elevation (SFT)*</b>	453.467	

  

<b>Convergence Angle</b>	0	36	56.9596911
<b>Scale Factor</b>	0.999945441		
<b>Elevation Adjust. Factor</b>	0.9999783097		
<b>Combined Adjust. Factor</b>	0.9999237519		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	55	28.25	92.7
<b>MK # 2</b>	WOODEN FENCE CORNER POST	59	16.90	55.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> FURGERSON	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	35 20 1.4119080
<b>Longitude</b>	93 3 29.8694160
<b>Ellipsoid Height (M):</b>	109.309
<b>Geoid Height (M):</b>	-28.907

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.45 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 23.0 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580007	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	112,939.6141		
<b>Easting (M)</b>	305,753.2330		
<b>Elevation (M)*</b>	198.686		
<b>Northing (SFT)</b>	370,536.0506		
<b>Easting (SFT)</b>	1,003,125.3986		
<b>Elevation (SFT)*</b>	651.856		

  

<b>Convergence Angle</b>	0	36	12.0955379
<b>Scale Factor</b>	0.999944470		
<b>Elevation Adjust. Factor</b>	0.9999688207		
<b>Combined Adjust. Factor</b>	0.9999132924		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD CROSS TIE CORNER POST	55	16.00	52.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> FURGERSON	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 20 48.7427460
<b>Longitude</b>	93 2 12.7698792
<b>Ellipsoid Height (M):</b>	169.132
<b>Geoid Height (M):</b>	-29.554

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 326 FOR 9.575 KM (5.95 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.2 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 20.4 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 2.24 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	580007A
<b>Geodetic Azimuth</b>	229 28 57.32720
<b>Grid Azimuth</b>	230 05 09.45450

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580007A	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	112,540.4061				
<b>Easting (M)</b>	305,276.0230				
<b>Elevation (M)*</b>	165.324				
<b>Northing (SFT)</b>	369,226.3157				
<b>Easting (SFT)</b>	1,001,559.7521				
<b>Elevation (SFT)*</b>	542.400				

  

<b>Convergence Angle</b>	0	36	22.9955585
<b>Scale Factor</b>	0.999944734		
<b>Elevation Adjust. Factor</b>	0.9999740559		
<b>Combined Adjust. Factor</b>	0.9999187914		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 8.96 KM (5.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH OF THE CENTERLINE OF HWY. 124 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: RUSSPORT</p> <p>Ref Mon # 2: FURGERSON</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580008	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 8900
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	113,310.7351	
<b>Easting (M)</b>	307,570.5800	
<b>Elevation (M)*</b>	233.998	
<b>Northing (SFT)</b>	371,753.6367	
<b>Easting (SFT)</b>	1,009,087.8112	
<b>Elevation (SFT)*</b>	767.708	

  

<b>Convergence Angle</b>	0	35	30.3026711
<b>Scale Factor</b>	0.999944219		
<b>Elevation Adjust. Factor</b>	0.9999632794		
<b>Combined Adjust. Factor</b>	0.9999075005		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	24" METAL PIPE	53	9.10	29.9
<b>MK # 2</b>	TELEPHONE POLE	95	26.30	86.3
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> FURGERSON	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 21 1.3998996
<b>Longitude</b>	93 1 0.9483816
<b>Ellipsoid Height (M):</b>	204.474
<b>Geoid Height (M):</b>	-29.524

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.506 KM (7.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.15 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 15.9 METERS WEST OF THE CENTERLINE OF A PAVED COUNTY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580008A	<b>Date Monumented</b> 11/29/1994	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> N/A	<b>Job Number:</b> 8900
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	112,954.2981	
<b>Easting (M)</b>	307,563.1600	
<b>Elevation (M)*</b>	251.057	
<b>Northing (SFT)</b>	370,584.2263	
<b>Easting (SFT)</b>	1,009,063.4674	
<b>Elevation (SFT)*</b>	823.676	

  

<b>Convergence Angle</b>	0	35	30.3888275
<b>Scale Factor</b>	0.999944448		
<b>Elevation Adjust. Factor</b>	0.9999606025		
<b>Combined Adjust. Factor</b>	0.9999050527		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	106	20.45	67.1
<b>MK # 2</b>	POWER POLE	133	26.55	87.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> FURGERSON	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 20 49.8317424
<b>Longitude</b>	93 1 1.0964424
<b>Ellipsoid Height (M):</b>	221.530
<b>Geoid Height (M):</b>	-29.527

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.51 KM (7.15 MILES) TO A PAVED ROAD RIGHT, GO RIGHT (SOUTH) ON A PAVED ROAD FOR 0.35 KM (0.22 MILES) TO THE TOP OF THE HILL AND THE STATION ON THE RIGHT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF THE PAVED ROAD, 5.0 METERS NORTH OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "580008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580009A	<b>Date Monumented</b> 5/11/1998	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> I-40	<b>Job Number:</b> 080133
---------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,621.2951	
<b>Easting (M)</b>	296,009.3940	
<b>Elevation (M)*</b>	109.830	
<b>Northing (SFT)</b>	356,368.3657	
<b>Easting (SFT)</b>	971,157.4868	
<b>Elevation (SFT)*</b>	360.334	

  

<b>Convergence Angle</b>	0	39	55.4857545
<b>Scale Factor</b>	0.999947578		
<b>Elevation Adjust. Factor</b>	0.9999827644		
<b>Combined Adjust. Factor</b>	0.9999303433		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO WEST ON I-40 WEST BOUND LANE FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT SET ON THE SOUTH SIDE OF I-40 EAST BOUND LANE. THE STATION IS 29.73 METERS SOUTH OF THE SOUTH EDGE OF CONCRETE OF THE EAST BOUND LANE, 2.03 METERS NORTH OF A CHAIN LINK FENCE AND 2.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: RUSSPORT</p> <p>Ref Mon # 2: CLARPORT</p> <p>Ref Mon # 3: W H PHILLIPS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580010	<b>Date Monumented</b> 5/11/1998	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080133
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	114,593.0461	
<b>Easting (M)</b>	298,078.3980	
<b>Elevation (M)*</b>	128.363	
<b>Northing (SFT)</b>	375,960.6854	
<b>Easting (SFT)</b>	977,945.5441	
<b>Elevation (SFT)*</b>	421.138	

  

<b>Convergence Angle</b>	0	39	9.3959729
<b>Scale Factor</b>	0.999943483		
<b>Elevation Adjust. Factor</b>	0.9999798561		
<b>Combined Adjust. Factor</b>	0.9999233402		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	199	26.50	87.0
<b>MK # 2</b>	0.60 METER CATALPA TREE	237	31.64	103.8
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	11	33.49	109.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> W H PHILLIPS	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 21 39.6633456
<b>Longitude</b>	93 7 17.4626112
<b>Ellipsoid Height (M):</b>	99.424
<b>Geoid Height (M):</b>	-28.914

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.644 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580010A	<b>Date Monumented</b> 5/11/1998	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080133
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	114,918.6270	
<b>Easting (M)</b>	298,285.5020	
<b>Elevation (M)*</b>	129.218	
<b>Northing (SFT)</b>	377,028.8621	
<b>Easting (SFT)</b>	978,625.0178	
<b>Elevation (SFT)*</b>	423.943	

  

<b>Convergence Angle</b>	0	39	4.7077364
<b>Scale Factor</b>	0.999943285		
<b>Elevation Adjust. Factor</b>	0.9999797219		
<b>Combined Adjust. Factor</b>	0.9999230080		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	209	23.55	77.3
MK # 2	1.45 METER CMP	344	3.90	12.8
MK # 3	NORTHWEST CORNER OF QUONSET HUT	167	14.78	48.5

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>W H PHILLIPS</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	CLARPORT	Ref Mon # 3	W H PHILLIPS	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	RUSSPORT						
Ref Mon # 2	CLARPORT						
Ref Mon # 3	W H PHILLIPS						

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 21 50.3041320
<b>Longitude</b>	93 7 9.4058256
<b>Ellipsoid Height (M):</b>	100.287
<b>Geoid Height (M):</b>	-28.906

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 6.49 KM (4.03 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.80 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7, 6.15 METERS SOUTH-SOUTHWEST OF A PAVED ENTRANCE TO A QUONSET HUT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580011	<b>Date Monumented</b> 5/11/1998	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080133
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	119,188.7900	
<b>Easting (M)</b>	298,068.9190	
<b>Elevation (M)*</b>	129.626	
<b>Northing (SFT)</b>	391,038.5552	
<b>Easting (SFT)</b>	977,914.4451	
<b>Elevation (SFT)*</b>	425.281	

  

<b>Convergence Angle</b>	0	39	10.8217713
<b>Scale Factor</b>	0.999940943		
<b>Elevation Adjust. Factor</b>	0.9999796579		
<b>Combined Adjust. Factor</b>	0.9999206021		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF JOSAPHENE STREET ON THE LEFT, TURN LEFT AND GO SOUTH ON JOSAPHENE STREET FOR ABOUT 55 METERS TO THE JUNCTION OF COLONY STREET ON THE RIGHT, TURN RIGHT AND GO WEST ON COLONY STREET FOR ABOUT 37 METERS TO THE STATION ON THE . LEFT. THE STATION IS 36.75 METERS WEST OF THE CENTER OF JOSAPHENE STREET, 6.50 METERS SOUTH OF THE CENTER OF COLONY STREET AND 1.08 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011 1998" SET ON TOP OF AN IRON ROD 0.38 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	0	1.50	4.9
MK # 2	WATER VALVE	86	29.90	98.1
MK # 3	WPA CONCRETE MARKER	69	33.50	109.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="RUSSPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="CLARPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="W H PHILLIPS"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580011A	<b>Date Monumented</b> 5/11/1998	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080133
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	119,495.9520	
<b>Easting (M)</b>	297,785.9600	
<b>Elevation (M)*</b>	123.953	
<b>Northing (SFT)</b>	392,046.3025	
<b>Easting (SFT)</b>	976,986.1038	
<b>Elevation (SFT)*</b>	406.669	

  

<b>Convergence Angle</b>	0	39	17.4280069
<b>Scale Factor</b>	0.999940793		
<b>Elevation Adjust. Factor</b>	0.9999805481		
<b>Combined Adjust. Factor</b>	0.9999213423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH IN TOP OF A METAL GUARD RAIL POST	328	4.97	16.3
<b>MK # 2</b>	PUNCH IN TOP OF A METAL GUARD RAIL POST	3	1.37	4.5
<b>MK # 3</b>	PUNCH IN TOP OF A METAL GUARD RAIL POST	118	2.90	9.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	
<b>Ref Mon # 2</b> CLARPORT	
<b>Ref Mon # 3</b> W H PHILLIPS	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 24 18.6421896
<b>Longitude</b>	93 7 31.2657492
<b>Ellipsoid Height (M):</b>	95.096
<b>Geoid Height (M):</b>	-28.853

Location Description
<p>TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET ABOUT 50 METERS NORTHWEST OF THE NORTHWEST END OF A BRIDGE. THE STATION IS 8.903 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.66 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580012	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080267, 080XX6,080495
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	99,731.9868	0.0055	
<b>Easting (M)</b>	295,637.8188	0.0055	
<b>Elevation (M)*</b>	98.454		
<b>Northing (SFT)</b>	327,204.0267		
<b>Easting (SFT)</b>	969,938.4105		
<b>Elevation (SFT)*</b>	323.011		

  

<b>Convergence Angle</b>	0	40	1.6602840
<b>Scale Factor</b>	0.999955277		
<b>Elevation Adjust. Factor</b>	0.9999845496		
<b>Combined Adjust. Factor</b>	0.9999398273		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	13	36.5435364
<b>Longitude</b>	93	8	47.2794252
<b>Ellipsoid Height:</b>	69.336		
<b>Grid Northing (Meters)</b>	99,731.9856		
<b>Grid Easting (Meters)</b>	295,637.8182		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO SOUTH ON STATE HIGHWAY 7 FOR 0.41 KM (0.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD LEADING TO THE PORT OF DARDANELLE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CLARPORT</p> <p>Ref Mon # 2    PJTC CAMPUS</p> <p>Ref Mon # 3    RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580012A	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080267, 080XX6,080495
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	100,064.2677 0.0066
<b>Easting (M)</b>	296,010.3211 0.0066
<b>Elevation (M)*</b>	103.537
<b>Northing (SFT)</b>	328,294.1849
<b>Easting (SFT)</b>	971,160.5285
<b>Elevation (SFT)*</b>	339.688

  

<b>Convergence Angle</b>	0 39 53.1774726
<b>Scale Factor</b>	0.999954950
<b>Elevation Adjust. Factor</b>	0.9999837519
<b>Combined Adjust. Factor</b>	0.9999387027

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	13	47.4663108
<b>Longitude</b>	93	8	32.7018516
<b>Ellipsoid Height:</b>	74.425		
<b>Grid Northing (Meters)</b>	100,064.2814		
<b>Grid Easting (Meters)</b>	296,010.3148		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	219	27.21	89.3
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CLARPORT	
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 RUSSPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID09
<b>Latitude</b>	35 13 47.4658680
<b>Longitude</b>	93 8 32.7015960
<b>Ellipsoid Height (M):</b>	74.288 0.0138
<b>Geoid Height (M):</b>	-29.204

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.09 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.51 METERS NORTH-NORTHEAST OF THE CENTER OF A ENTRANCE TO A FIELD, 13.25 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.</p>

<b>AZ Mark Station</b>	580012
<b>Geodetic Azimuth</b>	227 35 59.24157
<b>Grid Azimuth</b>	228 15 52.45603

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580013	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 247	<b>Job Number:</b> 080267, 080XX6
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,304.0937	
<b>Easting (M)</b>	300,151.7401	
<b>Elevation (M)*</b>	119.058	
<b>Northing (SFT)</b>	325,800.1807	
<b>Easting (SFT)</b>	984,747.8340	
<b>Elevation (SFT)*</b>	390.609	

  

<b>Convergence Angle</b>	0	38	17.6816655
<b>Scale Factor</b>	0.999955645		
<b>Elevation Adjust. Factor</b>	0.9999813163		
<b>Combined Adjust. Factor</b>	0.9999369621		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 247 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS EAST OF A PAVED ENTRANCE, 11.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 247, 0.95 METERS NORTH OF A PIPE FENCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 650.844 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	100	19.00	62.3
<b>MK # 2</b>	EAST END OF CMP	292	17.50	57.4
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> CLARPORT</p> <p><b>Ref Mon # 2</b> PJTC CAMPUS</p> <p><b>Ref Mon # 3</b> RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580013A	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 247	<b>Job Number:</b> 080267, 080XX6
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,305.7627	
<b>Easting (M)</b>	300,802.5444	
<b>Elevation (M)*</b>	115.588	
<b>Northing (SFT)</b>	325,805.6565	
<b>Easting (SFT)</b>	986,883.0144	
<b>Elevation (SFT)*</b>	379.225	

  

<b>Convergence Angle</b>	0	38	2.7071829
<b>Scale Factor</b>	0.999955637		
<b>Elevation Adjust. Factor</b>	0.9999818608		
<b>Combined Adjust. Factor</b>	0.9999374986		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CLARPORT <b>Ref Mon # 2</b> PJTC CAMPUS <b>Ref Mon # 3</b> RUSSPORT	

  

--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580014	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 331	<b>Job Number:</b> 080267, 080XX6
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,642.6308	
<b>Easting (M)</b>	301,042.0715	
<b>Elevation (M)*</b>	131.707	
<b>Northing (SFT)</b>	336,753.3645	
<b>Easting (SFT)</b>	987,668.8629	
<b>Elevation (SFT)*</b>	432.109	

  

<b>Convergence Angle</b>	0	37	58.0437158
<b>Scale Factor</b>	0.999952488		
<b>Elevation Adjust. Factor</b>	0.9999793313		
<b>Combined Adjust. Factor</b>	0.9999318203		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF CMP	112	12.90	42.3
<b>MK # 2</b>	GATE POST	87	14.10	46.3
<b>MK # 3</b>	WEST IN-LINE BRACE POST	318	1.43	4.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CLARPORT	DESTROYED IN APRIL OF 2013 BY PROPERTY OWNER CONSTRUCTING NEW DRIVEWAY.
<b>Ref Mon # 2</b> PJTC CAMPUS	
<b>Ref Mon # 3</b> RUSSPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 12.9772620
<b>Longitude</b>	93 5 14.8429788
<b>Ellipsoid Height (M):</b>	102.711
<b>Geoid Height (M):</b>	-28.977

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.45 METERS WEST OF A PAVED ENTRANCE TO A PASTURE, 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 331 AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS.</p>

<b>AZ Mark Station</b>	580014A
<b>Geodetic Azimuth</b>	274 54 33.47016
<b>Grid Azimuth</b>	275 32 31.56554

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580014A	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 331	<b>Job Number:</b> 080267, 080XX6
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,696.4938	
<b>Easting (M)</b>	300,486.9590	
<b>Elevation (M)*</b>	124.327	
<b>Northing (SFT)</b>	336,930.0801	
<b>Easting (SFT)</b>	985,847.6313	
<b>Elevation (SFT)*</b>	407.896	

  

<b>Convergence Angle</b>	0	38	10.8353092
<b>Scale Factor</b>	0.999952445		
<b>Elevation Adjust. Factor</b>	0.9999804894		
<b>Combined Adjust. Factor</b>	0.9999329353		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	99	22.70	74.5
<b>MK # 2</b>	CORNER FENCE POST	247	2.10	6.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CLARPORT	
<b>Ref Mon # 2</b> PJTC CAMPUS	
<b>Ref Mon # 3</b> RUSSPORT	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 15 14.5255068
<b>Longitude</b>	93 5 36.8254716
<b>Ellipsoid Height (M):</b>	95.316
<b>Geoid Height (M):</b>	-28.989

Location Description
<p>TO REACH THE STATION FROM THENJUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 331, 1.15 METERS NORTH OF A FENCE LINE AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDAR 64mm CAP STAMPED "580014A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS. THE SHOT DISTANCE IS 557.751 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580015	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 363	<b>Job Number:</b> 080XX6, 080500
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	102,125.3294	0.0020
<b>Easting (M)</b>	305,797.6291	0.0020
<b>Elevation (M)*</b>	118.487	
<b>Northing (SFT)</b>	335,056.1849	
<b>Easting (SFT)</b>	1,003,271.0548	
<b>Elevation (SFT)*</b>	388.737	

  

<b>Convergence Angle</b>	0	36	8.4523149
<b>Scale Factor</b>	0.999952911		
<b>Elevation Adjust. Factor</b>	0.9999814058		
<b>Combined Adjust. Factor</b>	0.9999343177		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	14	57.8548716
<b>Longitude</b>	93	2	6.5097996
<b>Ellipsoid Height:</b>	89.671		
<b>Grid Northing (Meters)</b>	102,125.3223		
<b>Grid Easting (Meters)</b>	305,797.6078		

  

Location Description				
<p>THE STATION IS LOCATED ON THE NORTH SIDE OF POTTSVILLE, AT THE JUNCTION OF I-40 AND STATE HIGHWAY 363. THE STATION IS 19.60 METERS SOUTH OF THE EAST BOUND LANE OF I-40, 7.25 METERS EAST OF THE CENTER OF STATE HIGHWAY 363 AND 1.52 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK P 293.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER OF BRIDGE	3	2.46	8.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY</p> <p><b>Ref Mon # 2</b>    ARHR</p> <p><b>Ref Mon # 3</b>    ARLR, P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>SOURCE OF PREVIOUS ELEV. (388.9001') WAS UNDOCUMENTED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM P 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580015A	<b>Date Monumented</b> 3/23/2000	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> I-40	<b>Job Number:</b> 080XX6
---------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,051.8081	
<b>Easting (M)</b>	306,282.3773	
<b>Elevation (M)*</b>	121.024	
<b>Northing (SFT)</b>	334,814.9737	
<b>Easting (SFT)</b>	1,004,861.4329	
<b>Elevation (SFT)*</b>	397.060	

  

<b>Convergence Angle</b>	0	35	57.2769720
<b>Scale Factor</b>	0.999952973		
<b>Elevation Adjust. Factor</b>	0.9999810077		
<b>Combined Adjust. Factor</b>	0.9999339816		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 363, LOCATED ON THE NORTH SIDE OF POTTSVILLE, GO EAST ON I-40 FOR 0.49 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS NORTH OF THE CENTER OF I-40 WEST BOUND LANE, 9.55 METERS SOUTH OF A FENCE AND 9.35 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CLARPORT</p> <p>Ref Mon # 2: PJTC CAMPUS</p> <p>Ref Mon # 3: RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580016	<b>Date Monumented</b> 3/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 326	<b>Job Number:</b> 080197
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	107,097.6957 0.0010
<b>Easting (M)</b>	299,367.2543 0.0010
<b>Elevation (M)*</b>	125.493 0.0119
<b>Northing (SFT)</b>	351,369.6900
<b>Easting (SFT)</b>	982,174.0668
<b>Elevation (SFT)*</b>	411.723

  

<b>Convergence Angle</b>	0 38 37.7476972
<b>Scale Factor</b>	0.999948728
<b>Elevation Adjust. Factor</b>	0.9999803064
<b>Combined Adjust. Factor</b>	0.9999290354

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	17	36.5498808
<b>Longitude</b>	93	6	23.5264860
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	107,086.1281		
<b>Grid Easting (Meters)</b>	299,355.7090		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	171	21.50	70.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 RUSSPORT	Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset. Updated 5/4/2023 SS didn't save before update.
Ref Mon # 2 CLARPORT	
Ref Mon # 3 W H PHILLIPS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580016A	<b>Date Monumented</b> 3/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 326	<b>Job Number:</b> 080197,080427,080686
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	107,597.1664	0.0010	
<b>Easting (M)</b>	299,353.8933	0.0010	
<b>Elevation (M)*</b>	124.978	0.0124	
<b>Northing (SFT)</b>	353,008.3701		
<b>Easting (SFT)</b>	982,130.2316		
<b>Elevation (SFT)*</b>	410.032		

  

<b>Convergence Angle</b>	0	38	38.1846801
<b>Scale Factor</b>	0.999948335		
<b>Elevation Adjust. Factor</b>	0.9999803872		
<b>Combined Adjust. Factor</b>	0.9999287233		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	17	53.1313440
<b>Longitude</b>	93	6	23.8254840
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	107,597.1675		
<b>Grid Easting (Meters)</b>	299,353.8979		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	354	19.00	62.3
MK # 2	OPTIC CABLE MARKER	186	4.05	13.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> CLARPORT <b>Ref Mon # 3</b> W H PHILLIPS	Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 17 53.1313080
<b>Longitude</b>	93 6 23.8256640
<b>Ellipsoid Height (M):</b>	95.881 0.0040
<b>Geoid Height (M):</b>	-29.091 0.0040

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 326, LOCATED ON THE NORTHEAST SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 326 FOR 0.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 326 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	580016
<b>Geodetic Azimuth</b>	179 09 10
<b>Grid Azimuth</b>	179 47 48

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580017	<b>Date Monumented</b> 3/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> N/A	<b>Job Number:</b> 080197
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,534.4851	
<b>Easting (M)</b>	297,239.7190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	356,083.5565	
<b>Easting (SFT)</b>	975,193.9781	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	27.1240389
<b>Scale Factor</b>	0.999947633		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.50 MILES TO THE STATION ON THE RIGHT. THIS STATION IS LOCATED INSIDE THE FENCE OF THE DISTRICT 8 A.H.T.D. AREA HEAD QUARTERS. TO DRIVE IN TO THE STATION GO THROUGH GATE, DRIVE PAST SERVICE STATION AND FOLLOW SERVICE ROAD AROUND EQUIPMENT LOT TO THE STATION. THE STATION IS 5.25 METERS SOUTH OF A CHAIN LINK FENCE LINE, 4.20 METERS NORTH OF THE CENTER LINE OF THE SERVICE ROAD, AND 5.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHWEST CORNER CONCRETE HEAD W	89	11.20	36.7	
MK # 2	POWER POLE	81	12.65	41.5	
MK # 3	POWER POLE	281	28.60	93.8	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="RUSSPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="CLARPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="W H PHILLIPS"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580017A	<b>Date Monumented</b> 3/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> N/A	<b>Job Number:</b> 080197
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,629.2781	
<b>Easting (M)</b>	296,721.1340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	356,394.5566	
<b>Easting (SFT)</b>	973,492.5871	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	39.0939787
<b>Scale Factor</b>	0.999947565		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS EAST OF THE CENTER OF A PAVED DRIVE, 12.00 METERS NORTH OF THE CENTER OF EAST ASPEN LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="RUSSPORT"/></p> <p>Ref Mon # 2 <input type="text" value="CLARPORT"/></p> <p>Ref Mon # 3 <input type="text" value="W H PHILLIPS"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580018	<b>Date Monumented</b> 8/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 164	<b>Job Number:</b> 080252
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	129,206.1901	
<b>Easting (M)</b>	293,335.9400	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	423,903.9754	
<b>Easting (SFT)</b>	962,386.3298	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	2.7259307
<b>Scale Factor</b>	0.999937218		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 2.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 164 AND 0.47 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	333	12.00	39.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HAR 1</p> <p>Ref Mon # 2    RUSSPORT</p> <p>Ref Mon # 3    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580018A	<b>Date Monumented</b> 8/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 164	<b>Job Number:</b> 080252
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	129,735.2170	
<b>Easting (M)</b>	293,228.0100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	425,639.6244	
<b>Easting (SFT)</b>	962,032.2295	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	41	5.3636341
<b>Scale Factor</b>	0.999937089		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 164, 0.75 METERS EAST OF A PIPE FENCE LINE AND 0.58 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.40	14.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD HAR 1</p> <p>Ref Mon # 2    RUSSPORT</p> <p>Ref Mon # 3    OZARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580019	<b>Date Monumented</b> 8/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080254
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	131,976.5330	
<b>Easting (M)</b>	312,168.6190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	432,993.0087	
<b>Easting (SFT)</b>	1,024,173.2108	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	48.5654420
<b>Scale Factor</b>	0.999936579		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST GATE POST	338	6.30	20.7
<b>MK # 2</b>	EAST GATE POST	7	10.00	32.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD HAR 1 <b>Ref Mon # 2</b> RUSSPORT <b>Ref Mon # 3</b> OZARPORT	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    35    31    8.5677528

**Longitude**    92    58    6.1118436

**Ellipsoid Height (M):**    155.602

**Geoid Height (M):**    -28.416

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 27 LOCATED ON THE SOUTH SIDE OF HECTOR, GO NORTH ON STATE HIGHWAY 27 FOR 5.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 27, 6.25 METERS SOUTHWEST OF A FIELD ENTRANCE, AND 1.85 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580019 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580019A	<b>Date Monumented</b> 8/26/2002	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080254
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	132,099.3131	
<b>Easting (M)</b>	312,481.5700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	433,395.8297	
<b>Easting (SFT)</b>	1,025,199.9509	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	41.3657370
<b>Scale Factor</b>	0.999936557		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	166	1.80	5.9
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	580019
<b>Geodetic Azimuth</b>	248 01 01
<b>Grid Azimuth</b>	248 34 42

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 RUSSPORT	
Ref Mon # 3 OZARPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580020	<b>Date Monumented</b> 10/26/2005	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 164	<b>Job Number:</b> 008818
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	125,070.2641	
<b>Easting (M)</b>	305,403.7320	
<b>Elevation (M)*</b>	163.583	
<b>Northing (SFT)</b>	410,334.6915	
<b>Easting (SFT)</b>	1,001,978.7441	
<b>Elevation (SFT)*</b>	536.688	

  

<b>Convergence Angle</b>	0	36	23.1087551
<b>Scale Factor</b>	0.999938420		
<b>Elevation Adjust. Factor</b>	0.9999743292		
<b>Combined Adjust. Factor</b>	0.9999127508		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	"T" fence post		358		3.40	11.2
MK # 2	"T" fence post		232		3.50	11.5
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Russport <b>Ref Mon # 2</b> Tri County <b>Ref Mon # 3</b> W. H. Phillips, D 126	3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580020A	<b>Date Monumented</b> 10/26/2005	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 164	<b>Job Number:</b> 008818
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	125,327.2361	
<b>Easting (M)</b>	305,528.7990	
<b>Elevation (M)*</b>	158.964	
<b>Northing (SFT)</b>	411,177.7738	
<b>Easting (SFT)</b>	1,002,389.0681	
<b>Elevation (SFT)*</b>	521.535	

  

<b>Convergence Angle</b>	0	36	20.2853361
<b>Scale Factor</b>	0.999938331		
<b>Elevation Adjust. Factor</b>	0.9999750540		
<b>Combined Adjust. Factor</b>	0.9999133865		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch CMP	195	31.10	102.0
MK # 2	Corner fence post	279	21.50	70.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Russport <b>Ref Mon # 2</b> Tri County <b>Ref Mon # 3</b> W. H. Phillips, D 126	3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580021	<b>Date Monumented</b> 3/1/2007	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> NA	<b>Job Number:</b> 080295
--------------------------	------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	106,506.3031		
<b>Easting (M)</b>	293,951.9280		
<b>Elevation (M)*</b>	112.949		
<b>Northing (SFT)</b>	349,429.4294		
<b>Easting (SFT)</b>	964,407.2838		
<b>Elevation (SFT)*</b>	370.568		

  

<b>Convergence Angle</b>	0	40	42.2994781
<b>Scale Factor</b>	0.999949252		
<b>Elevation Adjust. Factor</b>	0.9999822749		
<b>Combined Adjust. Factor</b>	0.9999315278		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH CORNER BRICK BLDGING	224	16.95	55.6
<b>MK # 2</b>	CENTER MANHOLE COVER	53	23.01	75.5
<b>MK # 3</b>	COMBINATION POLE	293	18.29	60.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> DQUA	3-wire levels ran by crew S5101 in Sept. 07 from NGS 1st Order Mark Q 292.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580022	<b>Date Monumented</b> 7/13/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392,080422
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	140,904.5650	
<b>Easting (M)</b>	303,951.5950	
<b>Elevation (M)*</b>	546.916	
<b>Northing (SFT)</b>	462,284.3937	
<b>Easting (SFT)</b>	997,214.5246	
<b>Elevation (SFT)*</b>	1,794.341	

  

<b>Convergence Angle</b>	0	37	0.5527197
<b>Scale Factor</b>	0.999935967		
<b>Elevation Adjust. Factor</b>	0.9999141784		
<b>Combined Adjust. Factor</b>	0.9998501509		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.75 MILES TO THE MARK ON THE RIGHT, SOUTH WEST 28.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH EAST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY, 510011</p> <p><b>Ref Mon # 2</b>    ARRS</p> <p><b>Ref Mon # 3</b>    P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580022A	<b>Date Monumented</b> 7/13/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392,080422
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	140,680.0360
<b>Easting (M)</b>	304,190.4460
<b>Elevation (M)*</b>	524.982
<b>Northing (SFT)</b>	461,547.7514
<b>Easting (SFT)</b>	997,998.1549
<b>Elevation (SFT)*</b>	1,722.378

  

<b>Convergence Angle</b>	0 36 54.9753841
<b>Scale Factor</b>	0.999935959
<b>Elevation Adjust. Factor</b>	0.9999176200
<b>Combined Adjust. Factor</b>	0.9998535843

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> 3rd Order - digital	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 35 48.3087732
<b>Longitude</b>	93 3 26.4593628
<b>Ellipsoid Height (M):</b>	496.697
<b>Geoid Height (M):</b>	-28.285

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.95 MILES TO THE MARK ON THE LEFT. IT IS NORTH EAST 18.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH WEST 43.0 FEET OF A WITNESS POST.IT IS 34.3 FEET SOUTH WEST OF CENTERLINE OF A POWER LINE AND 165.6 FEET SOUTH EAST OF A DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BOX CU 48" NORTH EAST END	127	24.23	79.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580023	<b>Date Monumented</b> 7/13/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	143,971.0240	
<b>Easting (M)</b>	303,699.4470	
<b>Elevation (M)*</b>	553.420	
<b>Northing (SFT)</b>	472,344.9346	
<b>Easting (SFT)</b>	996,387.2690	
<b>Elevation (SFT)*</b>	1,815.678	

  

<b>Convergence Angle</b>	0	37	7.1471488
<b>Scale Factor</b>	0.999936205		
<b>Elevation Adjust. Factor</b>	0.9999131579		
<b>Combined Adjust. Factor</b>	0.9998493685		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 37 34.9189536
<b>Longitude</b>	93 3 47.3766732
<b>Ellipsoid Height (M):</b>	525.210
<b>Geoid Height (M):</b>	-28.210

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 8.62 MILES TO THE MARK ON THE LEFT,IT IS NORTH EAST 28.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH WEST 13.7 FEET OF A WITNESS POST.IT IS 34 FEET NORTH WEST OF A PULL OFF. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580023 2010" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	580023A
<b>Geodetic Azimuth</b>	310 34 36
<b>Grid Azimuth</b>	311 11 43

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580023A	<b>Date Monumented</b> 7/13/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	144,400.5140				
<b>Easting (M)</b>	303,208.7640				
<b>Elevation (M)*</b>	561.706				
<b>Northing (SFT)</b>	473,754.0197				
<b>Easting (SFT)</b>	994,777.4199				
<b>Elevation (SFT)*</b>	1,842.862				

  

<b>Convergence Angle</b>	0	37	18.6021043
<b>Scale Factor</b>	0.999936256		
<b>Elevation Adjust. Factor</b>	0.9999118579		
<b>Combined Adjust. Factor</b>	0.9998481195		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" CEDAR TREE	41	18.59	61.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580024	<b>Date Monumented</b> 7/14/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	149,385.0200	
<b>Easting (M)</b>	300,801.9570	
<b>Elevation (M)*</b>	587.534	
<b>Northing (SFT)</b>	490,107.3531	
<b>Easting (SFT)</b>	986,881.0873	
<b>Elevation (SFT)*</b>	1,927.600	

  

<b>Convergence Angle</b>	0	38	15.5454954
<b>Scale Factor</b>	0.999937182		
<b>Elevation Adjust. Factor</b>	0.9999078053		
<b>Combined Adjust. Factor</b>	0.9998449931		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 3.55 MILES TO THE MARK ON THE LEFT. IT IS EAST 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 13.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580024 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARFY, 510011</p> <p><b>Ref Mon # 2</b>    ARRS</p> <p><b>Ref Mon # 3</b>    P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580024A	<b>Date Monumented</b> 7/14/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	149,727.1680				
<b>Easting (M)</b>	300,905.6160				
<b>Elevation (M)*</b>	587.091				
<b>Northing (SFT)</b>	491,229.8837				
<b>Easting (SFT)</b>	987,221.1752				
<b>Elevation (SFT)*</b>	1,926.148				

  

<b>Convergence Angle</b>	0	38	13.2349406
<b>Scale Factor</b>	0.999937268		
<b>Elevation Adjust. Factor</b>	0.9999078748		
<b>Combined Adjust. Factor</b>	0.9998451485		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	580024
<b>Geodetic Azimuth</b>	196 13 05
<b>Grid Azimuth</b>	196 51 18

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580025	<b>Date Monumented</b> 7/14/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	153,060.9610	
<b>Easting (M)</b>	300,377.1020	
<b>Elevation (M)*</b>	556.413	
<b>Northing (SFT)</b>	502,167.5029	
<b>Easting (SFT)</b>	985,487.2088	
<b>Elevation (SFT)*</b>	1,825.497	

  

<b>Convergence Angle</b>	0	38	26.3273693
<b>Scale Factor</b>	0.999938258		
<b>Elevation Adjust. Factor</b>	0.9999126883		
<b>Combined Adjust. Factor</b>	0.9998509517		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TB	178	25.76	84.5
MK # 2	ROCK BOX CU HOWL	30	23.47	77.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 42 28.6690932
<b>Longitude</b>	93 6 3.4487460
<b>Ellipsoid Height (M):</b>	528.356
<b>Geoid Height (M):</b>	-28.056

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 0.98 MILES TO THE MARK ON THE LEFT. IT IS SOUTH EAST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH WEST 52.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580025 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580025A	<b>Date Monumented</b> 7/14/2010	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080392
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	153,431.3729				
<b>Easting (M)</b>	300,416.8930				
<b>Elevation (M)*</b>	569.456				
<b>Northing (SFT)</b>	503,382.7626				
<b>Easting (SFT)</b>	985,617.7565				
<b>Elevation (SFT)*</b>	1,868.289				

  

<b>Convergence Angle</b>	0	38	25.5021063
<b>Scale Factor</b>	0.999938385		
<b>Elevation Adjust. Factor</b>	0.9999106418		
<b>Combined Adjust. Factor</b>	0.9998490323		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	18	27.89	91.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580026	<b>Date Monumented</b> 9/27/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080422
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	134,711.0109	
<b>Easting (M)</b>	300,525.7437	
<b>Elevation (M)*</b>	421.738	
<b>Northing (SFT)</b>	441,964.3749	
<b>Easting (SFT)</b>	985,974.8775	
<b>Elevation (SFT)*</b>	1,383.653	

  

<b>Convergence Angle</b>	0	38	18.1535568
<b>Scale Factor</b>	0.999936198		
<b>Elevation Adjust. Factor</b>	0.9999338199		
<b>Combined Adjust. Factor</b>	0.9998700221		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HIGH VOLTAGE POWER POLE	225	14.48	47.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580026A	<b>Date Monumented</b> 9/27/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080422
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	135,275.3622
<b>Easting (M)</b>	300,968.0040
<b>Elevation (M)*</b>	425.861
<b>Northing (SFT)</b>	443,815.9175
<b>Easting (SFT)</b>	987,425.8598
<b>Elevation (SFT)*</b>	1,397.179

  

<b>Convergence Angle</b>	0 38	8.0814827
<b>Scale Factor</b>	0.999936137	
<b>Elevation Adjust. Factor</b>	0.9999331730	
<b>Combined Adjust. Factor</b>	0.9998693143	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 7.4 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580026A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580027	<b>Date Monumented</b> 9/27/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080422
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	136,685.3043	
<b>Easting (M)</b>	302,966.7217	
<b>Elevation (M)*</b>	400.562	
<b>Northing (SFT)</b>	448,441.7025	
<b>Easting (SFT)</b>	993,983.3194	
<b>Elevation (SFT)*</b>	1,314.176	

  

<b>Convergence Angle</b>	0	37	22.2599639
<b>Scale Factor</b>	0.999936020		
<b>Elevation Adjust. Factor</b>	0.9999371428		
<b>Combined Adjust. Factor</b>	0.9998731668		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 8.9 MILES TO THE STATION MARK ON THE RIGHT, 175.6 FEET SOUTHWEST OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTHEAST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 26 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND UTIL MARKER (WATER)	160	10.18	33.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580027A	<b>Date Monumented</b> 9/27/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080422
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	137,114.4235
<b>Easting (M)</b>	303,270.9749
<b>Elevation (M)*</b>	391.013
<b>Northing (SFT)</b>	449,849.5711
<b>Easting (SFT)</b>	994,981.5235
<b>Elevation (SFT)*</b>	1,282.847

  

<b>Convergence Angle</b>	0 37 15.3372445
<b>Scale Factor</b>	0.999935994
<b>Elevation Adjust. Factor</b>	0.9999386411
<b>Combined Adjust. Factor</b>	0.9998746391

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 9.2 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 20 FEET OF THE CENTERLINE OF THE HIGHWAY AND 22.5 FEET NORTHWEST OF A WITNESS POINT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	140	7.30	24.0
MK # 2	POWER POLE W/2 GUYS	52	28.96	95.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580028	<b>Date Monumented</b> 11/10/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> N/A	<b>Job Number:</b> 080427
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,228.5714	
<b>Easting (M)</b>	301,294.9658	
<b>Elevation (M)*</b>	139.643	
<b>Northing (SFT)</b>	364,922.4047	
<b>Easting (SFT)</b>	988,498.5670	
<b>Elevation (SFT)*</b>	458.145	

  

<b>Convergence Angle</b>	0	37	54.4018147
<b>Scale Factor</b>	0.999945647		
<b>Elevation Adjust. Factor</b>	0.9999780860		
<b>Combined Adjust. Factor</b>	0.9999237342		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	318	3.66	12.0
MK # 2	COMBINATION POLE W/ 3 GUYS	56	26.82	88.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012
--	--

  

**Vertical Determined By:** 3rd Order - Digital Level

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid09

**Latitude** 35 19 51.6637200

**Longitude** 93 5 8.5843320

**Ellipsoid Height (M):** 110.664

**Geoid Height (M):** -28.970

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 326 (WEIR ROAD), NORTHEAST OF RUSSELLVILLE, GO EAST ON HIGHWAY 124 2.7 MILES TO CENTER VALLEY ROAD AND TURN LEFT HERE AND GO 0.1 MILES TO THE MARK ON THE LEFT, SOUTHWEST 22.0 FEET OF THE CENTERLINE OF THE ROAD AND NORTHEAST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2011 580028" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580028A	<b>Date Monumented</b> 11/10/2011	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> N/A	<b>Job Number:</b> 080427
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,456.1678	
<b>Easting (M)</b>	300,854.5617	
<b>Elevation (M)*</b>	140.020	
<b>Northing (SFT)</b>	365,669.1105	
<b>Easting (SFT)</b>	987,053.6745	
<b>Elevation (SFT)*</b>	459.382	

  

<b>Convergence Angle</b>	0	38	4.6070429
<b>Scale Factor</b>	0.999945494		
<b>Elevation Adjust. Factor</b>	0.9999780268		
<b>Combined Adjust. Factor</b>	0.9999235220		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	148	24.38	80.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012
--	--

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	35 19 58.8907920
<b>Longitude</b>	93 5 26.1221280
<b>Ellipsoid Height (M):</b>	111.031
<b>Geoid Height (M):</b>	-28.977

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 326 (WEIR ROAD), NORTHEAST OF RUSSELLVILLE, GO EAST ON HIGHWAY 124 2.7 MILES TO CENTER VALLEY ROAD AND TURN LEFT HERE AND GO 0.4 MILES TO THE MARK ON THE RIGHT, NORTH 26.0 FEET OF THE CENTERLINE OF THE ROAD AND SOUTH 6.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2011 580028A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	580028
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580029	<b>Date Monumented</b> 2/16/2012	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> 080443
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,209.7605	
<b>Easting (M)</b>	316,083.8219	
<b>Elevation (M)*</b>	100.779	
<b>Northing (SFT)</b>	332,052.3559	
<b>Easting (SFT)</b>	1,037,018.3390	
<b>Elevation (SFT)*</b>	330.640	

  

<b>Convergence Angle</b>	0	32	11.4909177
<b>Scale Factor</b>	0.999953662		
<b>Elevation Adjust. Factor</b>	0.9999841847		
<b>Combined Adjust. Factor</b>	0.9999378474		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	60	31.09	102.0
MK # 2	POWER POLE	300	28.35	93.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580029A	<b>Date Monumented</b> 2/16/2012	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> 080443
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,191.5755	
<b>Easting (M)</b>	316,776.1629	
<b>Elevation (M)*</b>	100.905	
<b>Northing (SFT)</b>	331,992.6940	
<b>Easting (SFT)</b>	1,039,289.7944	
<b>Elevation (SFT)*</b>	331.051	

  

<b>Convergence Angle</b>	0	31	55.5524017
<b>Scale Factor</b>	0.999953673		
<b>Elevation Adjust. Factor</b>	0.9999841650		
<b>Combined Adjust. Factor</b>	0.9999378388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	90	24.87	81.6
<b>MK # 2</b>	UNDERGROUND CABLE MARKER	270	15.24	50.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580030	<b>Date Monumented</b> 3/12/2015	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> I 40	<b>Job Number:</b> 080497
--------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	111,947.8124	0.0030
<b>Easting (M)</b>	283,230.1032	0.0030
<b>Elevation (M)*</b>	134.125	
<b>Northing (SFT)</b>	367,282.1145	
<b>Easting (SFT)</b>	929,230.7636	
<b>Elevation (SFT)*</b>	440.041	

  

<b>Convergence Angle</b>	0	44	50.8323960
<b>Scale Factor</b>	0.999945304		
<b>Elevation Adjust. Factor</b>	0.9999789519		
<b>Combined Adjust. Factor</b>	0.9999242570		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> P777	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35    20    7.9458684
<b>Longitude</b>	93    17    4.2248292
<b>Ellipsoid Height (M):</b>	104.844    0.0050
<b>Geoid Height (M):</b>	-29.278    0.0050

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 1.65 MILES TO MARK ON LEFT, SOUTH 36 FEET FROM EDGE OF PAVEMENT AND NORTH 8.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580030A	<b>Date Monumented</b> 3/12/2015	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> I 40	<b>Job Number:</b> 080497
---------------------------	-------------------------------------	------------------------------	-----------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	112,006.5154	0.0030	
<b>Easting (M)</b>	282,568.3566	0.0020	
<b>Elevation (M)*</b>	136.268		
<b>Northing (SFT)</b>	367,474.7093		
<b>Easting (SFT)</b>	927,059.6833		
<b>Elevation (SFT)*</b>	447.072		

  

<b>Convergence Angle</b>	0	45	6.0976125
<b>Scale Factor</b>	0.999945270		
<b>Elevation Adjust. Factor</b>	0.9999786156		
<b>Combined Adjust. Factor</b>	0.9999238868		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> P777	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	35    20    9.5696844
<b>Longitude</b>	93    17    30.4582704
<b>Ellipsoid Height (M):</b>	106.975    0.0050
<b>Geoid Height (M):</b>	-29.286    0.0050

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 2.05 MILES TO MARK ON LEFT, SOUTH 25.7 FEET FROM EDGE OF PAVEMENT AND NORTH 6.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580031	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080506,CROOKED CREEK
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 121,973.1238	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 296,973.0852	<b>0.0020</b>	<b>Latitude</b> 35 25 38.7172020
<b>Elevation (M)*</b>		<b>Longitude</b> 93 8 4.6126320
<b>Northing (SFT)</b> 400,173.4903		<b>Ellipsoid Height (M):</b> 101.947 0.0060
<b>Easting (SFT)</b> 974,319.1970		<b>Geoid Height (M):</b> -28.910 0.0060
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	36.8325289
<b>Scale Factor</b>	0.999939661		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	38.20	125.3
MK # 2	SOUTH HEADWAL	195	16.00	52.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580031A	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080506,CROOKED CREEK
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 122,440.5299	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 296,983.4964	<b>0.0020</b>	<b>Latitude</b> 35 25 53.8871628
<b>Elevation (M)*</b>		<b>Longitude</b> 93 8 4.4134224
<b>Northing (SFT)</b> 401,706.9718		<b>Ellipsoid Height (M):</b> 105.783 0.0050
<b>Easting (SFT)</b> 974,353.3544		<b>Geoid Height (M):</b> -28.900 0.0050
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 39 36.7166090	<b>Scale Factor</b> 0.999939464
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 333, NORTH OF DOVER, GO NORTH ON HIGHWAY 7 1.2 MILES TO THE MARK ON THE RIGHT, EAST 21 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 13 FEET OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580031A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	92	18.00	59.1
MK # 2	RCP	170	24.00	78.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580032	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 105	<b>Job Number:</b> ALEWINE CREEK,080529
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	104,288.2104	0.0020	
<b>Easting (M)</b>	314,910.6308	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	342,152.2370		
<b>Easting (SFT)</b>	1,033,169.2945		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	39.1655330
<b>Scale Factor</b>	0.999950915		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CMP	72	14.00	45.9
MK # 2	COMBINATION POLE W/GUY	85	48.00	157.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Ref Mon # 2: ARHR	
Ref Mon # 3: ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580032A	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 105	<b>Job Number:</b> ALEWINE CREEK,080529
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	104,789.5188	0.0020
<b>Easting (M)</b>	314,840.8937	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	343,796.9463	
<b>Easting (SFT)</b>	1,032,940.4987	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	40.8808462
<b>Scale Factor</b>	0.999950488		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	202	28.00	91.9
<b>MK # 2</b>	GAS METER	202	66.00	216.5
<b>MK # 3</b>	NORTH END GATE	260	29.50	96.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR, P777	<b>Comments</b> GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
---	--

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 16 27.2410104
<b>Longitude</b>	92 56 9.7951272
<b>Ellipsoid Height (M):</b>	96.235 0.0040
<b>Geoid Height (M):</b>	-28.802 0.0040

Location Description
THE STATION MARK IS LOCATED WEST OF THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 247N, 14 MILES SOUTH OF HECTOR, THE MARK IS WEST OF THE CENTERLINE OF HIGHWAY 105 29 FEET AND IN LINE WITH THE CENTERLINE OF HIGHWAY 247 HEADING EAST AND NORTH 14.5 FEET OF THE CENTERLINE OF AN ASPHALT APRON. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580032A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	580032
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580033	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 105	<b>Job Number:</b> HECTOR CREEK,080529
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	119,952.5215    0.0020
<b>Easting (M)</b>	312,679.4014    0.0010
<b>Elevation (M)*</b>	189.306    0.0029
<b>Northing (SFT)</b>	393,544.2310
<b>Easting (SFT)</b>	1,025,849.0028
<b>Elevation (SFT)*</b>	621.083

  

<b>Convergence Angle</b>	0    33    34.0575216
<b>Scale Factor</b>	0.999940497
<b>Elevation Adjust. Factor</b>	0.9999702925
<b>Combined Adjust. Factor</b>	0.9999107913

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF A CMP	177	25.00	82.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR, P777	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    24    38.5780068
<b>Longitude</b>	92    57    41.1798240
<b>Ellipsoid Height (M):</b>	160.614    0.0040
<b>Geoid Height (M):</b>	-28.682    0.0040

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.5 MILES TO THE MARK ON THE LEFT, WEST 32 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 132.5 FEET OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580033A	<b>Date Monumented</b> 1/20/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 105	<b>Job Number:</b> HECTOR CREEK,080529
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	120,257.2027	0.0020			
<b>Easting (M)</b>	312,346.6104	0.0020			
<b>Elevation (M)*</b>	191.962	0.0030			
<b>Northing (SFT)</b>	394,543.8392				
<b>Easting (SFT)</b>	1,024,757.1710				
<b>Elevation (SFT)*</b>	629.794				

  

<b>Convergence Angle</b>	0	33	41.8017669
<b>Scale Factor</b>	0.999940356		
<b>Elevation Adjust. Factor</b>	0.9999698759		
<b>Combined Adjust. Factor</b>	0.9999102337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	91	18.00	59.1
MK # 2	WATER METER	261	31.00	101.7
MK # 3	NORTHEAST CORNER CHICKEN HOUSE	267	127.00	416.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR, P777	<b>Comments</b>  ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
---	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.65 MILES TO ROCK SPRINGS LOOP, TURN LEFT HERE (WEST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, SOUTH 41 FEET OF THE CENTERLINE OF THE GRAVEL ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	580033
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580034	<b>Date Monumented</b> 8/11/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 331	<b>Job Number:</b> 080500
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	102,453.2395	0.0020
<b>Easting (M)</b>	304,380.9508	0.0020
<b>Elevation (M)*</b>	114.429	
<b>Northing (SFT)</b>	336,132.0033	
<b>Easting (SFT)</b>	998,623.1694	
<b>Elevation (SFT)*</b>	375.422	

  

<b>Convergence Angle</b>	0	36	41.1410417
<b>Scale Factor</b>	0.999952626		
<b>Elevation Adjust. Factor</b>	0.9999820427		
<b>Combined Adjust. Factor</b>	0.9999346696		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	305	63.00	206.7
MK # 2	NORTHWEST END OF GATE	111	69.50	228.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500. *****NOTE*****CONSTR AINED ORTHO. HTS. ON CORS ARFY, ARHR, & ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 & CHECKED FLAT *****
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR, P777	

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35    15    8.0082648
<b>Longitude</b>	93    3    2.6848944
<b>Ellipsoid Height (M):</b>	85.410    0.0030
<b>Geoid Height (M):</b>	-29.015    0.0030

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.15 MILES TO THE STATION ON THE RIGHT, 13.7 FEET NORTH NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580034A	<b>Date Monumented</b> 8/11/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 331	<b>Job Number:</b> 080500,080686
---------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 102,734.8263	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 303,992.0968	<b>0.0020</b>	<b>Latitude</b> 35 15 17.0103024
<b>Elevation (M)*</b> 117.180		<b>Longitude</b> 93 3 18.1861236
<b>Northing (SFT)</b> 337,055.8426		<b>Ellipsoid Height (M):</b> 88.147 0.0030
<b>Easting (SFT)</b> 997,347.4043		<b>Geoid Height (M):</b> -29.030 0.0030
<b>Elevation (SFT)*</b> 384.448		

  

<b>Convergence Angle</b> 0 36 50.1611935	<b>Scale Factor</b> 0.999952376	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999816110	<b>Combined Adjust. Factor</b> 0.9999339879	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.45 MILES TO THE STATION ON THE RIGHT, 23.7 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	100	76.50	251.0
MK # 2	FIRE HYDRANT	203	69.40	227.7
MK # 3	LIGHT POLE	285	93.00	305.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	<p>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.</p> <p>*****NOTE*****CONSTR</p> <p>AINED ORTHO. HTS. ON CORS ARFY, ARHR, &amp; ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 &amp; CHECKED FLAT</p> <p>*****</p>
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580035	<b>Date Monumented</b> 12/27/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> SR-105	<b>Job Number:</b> ISABELL CREEK, 080529
--------------------------	--------------------------------------	------------------------------	-----------------------	------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 114,000.6834	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 312,839.1875	<b>0.0020</b>	<b>Latitude</b> 35 21 25.5028464
<b>Elevation (M)*</b>		<b>Longitude</b> 92 57 32.5489104
<b>Northing (SFT)</b> 374,017.2421		<b>Ellipsoid Height (M):</b> 139.541 0.0050
<b>Easting (SFT)</b> 1,026,373.2343		<b>Geoid Height (M):</b> -28.741 0.0050
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 33 29.0352005	<b>Location Description</b> FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.1 MI TO STA ON R, JUST BEFORE THE CHURCH. 24' E OF OF SR-105 C/L. 23' S OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035 2016" SET BELLOW SURFACE.
<b>Scale Factor</b> 0.999943751	
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CTR OF RC BOX CU	194	27.00	88.6
<b>MK # 2</b>	COMBINATION POLE	55	18.00	59.1
<b>MK # 3</b>	FIRE HYDRANT	150	48.00	157.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580035A	<b>Date Monumented</b> 12/27/2016	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> SR-105	<b>Job Number:</b> ISABELL CREEK, 080529
---------------------------	--------------------------------------	------------------------------	-----------------------	------------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 114,474.6337	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 312,829.1777	<b>0.0020</b>	<b>Latitude</b> 35 21 40.8785004
<b>Elevation (M)*</b>		<b>Longitude</b> 92 57 33.1282692
<b>Northing (SFT)</b> 375,572.1941		<b>Ellipsoid Height (M):</b> 144.620 0.0050
<b>Easting (SFT)</b> 1,026,340.3938		<b>Geoid Height (M):</b> -28.735 0.0050
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 33 29.3723289	<b>Scale Factor</b> 0.999943460	<b>Location Description</b>
<b>Elevation Adjust. Factor</b>		FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.4 MI TO STA ON R, PAST THE ISABELL CREEK BR. 29' E OF OF SR-105 C/L. 30' N OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035A 2016" SET BELLOW SURFACE.
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N END OF CMP	110	18.00	59.1
MK # 2	CTR OF E HEADWALL	165	83.00	272.3
MK # 3	CPOLE W/GUY	144	94.00	308.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580036	<b>Date Monumented</b> 10/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 080616
--------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 121,348.4366	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 319,895.4567	<b>0.0020</b>	<b>Latitude</b> 35 25 26.0648580
<b>Elevation (M)*</b>		<b>Longitude</b> 92 52 55.6643208
<b>Northing (SFT)</b> 398,123.9957		<b>Ellipsoid Height (M):</b> 131.572 0.0090
<b>Easting (SFT)</b> 1,049,523.6775		<b>Geoid Height (M):</b> -28.583 0.0090
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 30 47.9162992	<b>Scale Factor</b> 0.999939830	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTH 31' OF THE C/L OF THE HIGHWAY AND WEST 54.2' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036" ON TOP OF A 2' REBAR DRIVEN BELOW THEW SURFACE OF THE GROUND.
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	79	9.69	31.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARBT	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580036A	<b>Date Monumented</b> 10/1/2019	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 124	<b>Job Number:</b> 080616
---------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	121,321.6502	0.0020	
<b>Easting (M)</b>	320,420.2274	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	398,036.1140		
<b>Easting (SFT)</b>	1,051,245.3627		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	30	35.8056074
<b>Scale Factor</b>	0.999939840		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	267	16.97	55.7
<b>MK # 2</b>	CENTER OF HEADWALL	82	5.12	16.8
<b>MK # 3</b>	COMBINATION POLE W/3 GUYS	132	8.84	29.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    25    25.3477452
<b>Longitude</b>	92    52    34.8519648
<b>Ellipsoid Height (M):</b>	121.668    0.0090
<b>Geoid Height (M):</b>	-28.576    0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.3 MILES TO THE MARK ON THE RIGHT, SOUTH 20.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580037	<b>Date Monumented</b> 3/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080621
--------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	120,220.9766	0.0030	
<b>Easting (M)</b>	300,751.1413	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	394,424.9874		
<b>Easting (SFT)</b>	986,714.3694		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	9.2314057
<b>Scale Factor</b>	0.999940429		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT & TRANSFO	159	6.10	20.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	580037A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARBT	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580037A	<b>Date Monumented</b> 3/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080621
---------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	120,565.0798	0.0030	
<b>Easting (M)</b>	301,007.9460	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	395,553.9326		
<b>Easting (SFT)</b>	987,556.9028		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	3.3964031
<b>Scale Factor</b>	0.999940268		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	238	12.62	41.4
MK # 2	WATER LINE SIGN	19	15.97	52.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR, ARRV	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   24   54.5088420
<b>Longitude</b>	93   5   24.0416304
<b>Ellipsoid Height (M):</b>	120.083   0.0100
<b>Geoid Height (M):</b>	-28.892   0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164S, EAST OF DOVER, GO NORTH ON HIGHWAY 27 7.5 MILES TO THE MARK ON THE LEFT, NW OF THE C/L OF HIGHWAY 27 24.5' . THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580037A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580038	<b>Date Monumented</b> 3/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080621
--------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	124,207.5277	0.0030			
<b>Easting (M)</b>	304,985.5733	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	407,504.1971				
<b>Easting (SFT)</b>	1,000,606.8351				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	32.5467326
<b>Scale Factor</b>	0.999938733		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/GUY	22	9.63	31.6
<b>MK # 2</b>	SOUTH HDWL	229	18.59	61.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARHR, ARRV	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 26 54.0977208
<b>Longitude</b>	93 2 47.9154804
<b>Ellipsoid Height (M):</b>	122.804 0.0100
<b>Geoid Height (M):</b>	-28.780 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO SOUTH ON CLOUD MTN RD. 71.7' TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF HIGHWAY 27 71.7' AND WEST OF THE C/L OF CLOUD MNT RD 30.9'.. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 580038A	<b>Date Monumented</b> 3/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 27	<b>Job Number:</b> 080621
---------------------------	------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	124,558.4353	0.0020			
<b>Easting (M)</b>	305,013.9614	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	408,655.4665				
<b>Easting (SFT)</b>	1,000,699.9717				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	31.9777476
<b>Scale Factor</b>	0.999938604		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	283	8.47	27.8
MK # 2	CENTER OF GATE	309	15.70	51.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR, ARRV	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   27   5.4936036
<b>Longitude</b>	93   2   46.9376736
<b>Ellipsoid Height (M):</b>	113.210   0.0090
<b>Geoid Height (M):</b>	-28.775   0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO NORTH ON HIGHWAY 164 0.15 MILES TO THE MARK ON THE LEFT, WEST OF THE C/L OF HIGHWAY 164 31' AND SOUTH OF THE C/L OF A FIELD ROAD 15'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590001	<b>Date Monumented</b> 5/6/1997	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 165	<b>Job Number:</b> 001701
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,529.4218	
<b>Easting (M)</b>	433,150.1360	
<b>Elevation (M)*</b>	61.097	
<b>Northing (SFT)</b>	1,993,202.7780	
<b>Easting (SFT)</b>	1,421,093.4045	
<b>Elevation (SFT)*</b>	200.449	

  

<b>Convergence Angle</b>	0	12	7.6405377
<b>Scale Factor</b>	0.999956877		
<b>Elevation Adjust. Factor</b>	0.9999904120		
<b>Combined Adjust. Factor</b>	0.9999472894		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	176	1.05	3.4
MK # 2	IRRIGATION RISER	198	3.70	12.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMYPORT AZ MK	Elevation based on 3-wire from NGS Point N 113 (66.231 meters)
Ref Mon # 2 ARLR	
Ref Mon # 3 590007, 590007A	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 13.9909236
<b>Longitude</b>	91 38 19.9238064
<b>Ellipsoid Height (M):</b>	34.650
<b>Geoid Height (M):</b>	-26.447

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 11, LOCATED ABOUT 3.22 (2.00 MI) NORTH OF STUTTGART, GO EAST ON U.S. HIGHWAY 165 FOR 3.54 KM (2.20 MI) TO THE ARKANSAS-PRAIRIE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 165 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 165 AND 0.84 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590002	<b>Date Monumented</b> 5/6/1997	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 165	<b>Job Number:</b> 001701
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,594.1939	
<b>Easting (M)</b>	436,942.3240	
<b>Elevation (M)*</b>	59.584	
<b>Northing (SFT)</b>	1,993,415.2845	
<b>Easting (SFT)</b>	1,433,534.9413	
<b>Elevation (SFT)*</b>	195.485	

  

<b>Convergence Angle</b>	0	13	30.8832734
<b>Scale Factor</b>	0.999956947		
<b>Elevation Adjust. Factor</b>	0.9999906494		
<b>Combined Adjust. Factor</b>	0.9999475968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 11, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF STATTGRAT, GO EAST ON U.S. HIGHWAY 165 FOR 3.54 KM (2.20 MI) TO THE ARKANSAS-PRAIRIE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 165 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.750 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 19.560 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 165 AND 2.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF 0.70 METER RCP	98	18.71	61.4
<b>MK # 2</b>	WEST END OF 0.70 METER RCP	159	36.81	120.8
<b>MK # 3</b>	POWER POLE	197	40.98	134.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ALMYPORT AZ</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    590007, 590007A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation based on 3-wire from NGS Point N 113 (66.231 meters)</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590003	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	34,111.8570	
<b>Easting (M)</b>	440,814.9179	
<b>Elevation (M)*</b>	66.348	
<b>Northing (SFT)</b>	111,915.3175	
<b>Easting (SFT)</b>	1,446,240.2765	
<b>Elevation (SFT)*</b>	217.677	

  

<b>Convergence Angle</b>	0	15	32.4722621
<b>Scale Factor</b>	1.000070609		
<b>Elevation Adjust. Factor</b>	0.9999895879		
<b>Combined Adjust. Factor</b>	1.0000601962		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	345	39.30	128.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	Elevation by 3-wire from NGS Point C 114
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 ALMYPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590004	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	39,375.5931	
<b>Easting (M)</b>	440,815.3669	
<b>Elevation (M)*</b>	64.585	
<b>Northing (SFT)</b>	129,184.7584	
<b>Easting (SFT)</b>	1,446,241.7496	
<b>Elevation (SFT)*</b>	211.893	

  

<b>Convergence Angle</b>	0	15	33.0264910
<b>Scale Factor</b>	1.000057439		
<b>Elevation Adjust. Factor</b>	0.9999898646		
<b>Combined Adjust. Factor</b>	1.0000473030		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 13.28 KM (8.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 12.50 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590004 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 950. THE SHOT DISTANCE IS 700.772 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	342	9.20	30.2
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    PAGIS 1001</p> <p>Ref Mon # 3    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3-wire from NGS Point C 114</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590004A	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	38,674.9593	
<b>Easting (M)</b>	440,799.6664	
<b>Elevation (M)*</b>	64.588	
<b>Northing (SFT)</b>	126,886.0956	
<b>Easting (SFT)</b>	1,446,190.2388	
<b>Elevation (SFT)*</b>	211.902	

  

<b>Convergence Angle</b>	0	15	32.5951725
<b>Scale Factor</b>	1.000059153		
<b>Elevation Adjust. Factor</b>	0.9999898641		
<b>Combined Adjust. Factor</b>	1.0000490165		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 12.63 KM (7.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 8.70 METERS NORTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590004A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 948. THE SHOT DISTANCE IS 700.772 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END OF A CONCRETE HEADWALL	332	26.45	86.8
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 2</b>    PAGIS 1001</p> <p><b>Ref Mon # 3</b>    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3-wire from NGS Point C 114</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590005	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	43,132.2727	
<b>Easting (M)</b>	440,944.2038	
<b>Elevation (M)*</b>	67.104	
<b>Northing (SFT)</b>	141,509.7980	
<b>Easting (SFT)</b>	1,446,664.4420	
<b>Elevation (SFT)*</b>	220.157	

  

<b>Convergence Angle</b>	0	15	36.3614650
<b>Scale Factor</b>	1.000048454		
<b>Elevation Adjust. Factor</b>	0.9999894693		
<b>Combined Adjust. Factor</b>	1.0000379228		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	70	3.98	13.1
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	253	1.85	6.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	Elevation by 3-wire from NGS Point C 114
<b>Ref Mon # 2</b> PAGIS 1001	
<b>Ref Mon # 3</b> ALMYPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590005A	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	43,682.0700	
<b>Easting (M)</b>	440,976.4701	
<b>Elevation (M)*</b>	66.090	
<b>Northing (SFT)</b>	143,313.5913	
<b>Easting (SFT)</b>	1,446,770.3023	
<b>Elevation (SFT)*</b>	216.830	

  

<b>Convergence Angle</b>	0	15	37.1564870
<b>Scale Factor</b>	1.000047167		
<b>Elevation Adjust. Factor</b>	0.9999896284		
<b>Combined Adjust. Factor</b>	1.0000367949		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	Elevation by 3-wire from NGS Point C 114
<b>Ref Mon # 2</b> PAGIS 1001	
<b>Ref Mon # 3</b> ALMYPORT AZ MK	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    43    34.4138664
<b>Longitude</b>	91    33    9.4863528
<b>Ellipsoid Height (M):</b>	39.332
<b>Geoid Height (M):</b>	-26.758

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 17.62 KM (10.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.85 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 960. THE SHOT DISTANCE IS 550.717 METERS.</p>

<b>AZ Mark Station</b>	590005
<b>Geodetic Azimuth</b>	183 37 08.47192
<b>Grid Azimuth</b>	183 21 31.32381

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590006	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 061083
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	49,446.2224	
<b>Easting (M)</b>	441,175.8266	
<b>Elevation (M)*</b>	70.108	
<b>Northing (SFT)</b>	162,224.8147	
<b>Easting (SFT)</b>	1,447,424.3578	
<b>Elevation (SFT)*</b>	230.013	

  

<b>Convergence Angle</b>	0	15	42.3180833
<b>Scale Factor</b>	1.000034127		
<b>Elevation Adjust. Factor</b>	0.9999889979		
<b>Combined Adjust. Factor</b>	1.0000231245		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 23.34 KM (14.50 MI) TO A "Y" JUNCTION AND THE STATION STRAIGHT AHEAD. THE STATION IS 15.60 METERS WEST OF THE CENTER OF THE HIGHWAY, 13.00 METERS EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDAD 64mm CAP STAMPED "590006 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 973=BENCH MARK K 109. THE SHOT DISTANCE IS 660.417 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 2</b>    PAGIS 1001</p> <p><b>Ref Mon # 3</b>    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3-wire from NGS Point K 109</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590006A	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 061083
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	48,786.3160	
<b>Easting (M)</b>	441,149.1882	
<b>Elevation (M)*</b>	69.553	
<b>Northing (SFT)</b>	160,059.7717	
<b>Easting (SFT)</b>	1,447,336.9616	
<b>Elevation (SFT)*</b>	228.192	

  

<b>Convergence Angle</b>	0	15	41.6395238
<b>Scale Factor</b>	1.000035579		
<b>Elevation Adjust. Factor</b>	0.9999890850		
<b>Combined Adjust. Factor</b>	1.0000246636		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PAGIS 1001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ALMYPORT AZ MK</td> </tr> </table>	Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	PAGIS 1001	Ref Mon # 3	ALMYPORT AZ MK	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3-wire from NGS Point C 114</td> </tr> </table>	Comments	Elevation by 3-wire from NGS Point C 114
Ref Mon # 1	BRINKLEYPORT								
Ref Mon # 2	PAGIS 1001								
Ref Mon # 3	ALMYPORT AZ MK								
Comments									
Elevation by 3-wire from NGS Point C 114									

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRIE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 22.69 KM (14.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590006A 20001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 972. THE SHOT DISTANCE IS 660.417 METERS.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	46	20.0184096
<b>Longitude</b>	91	33	1.7822052
<b>Ellipsoid Height (M):</b>	42.731		
<b>Geoid Height (M):</b>	-26.822		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590007	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986, 020325
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	28,615.4988	
<b>Easting (M)</b>	440,700.0013	
<b>Elevation (M)*</b>	67.280	
<b>Northing (SFT)</b>	93,882.6823	
<b>Easting (SFT)</b>	1,445,863.2543	
<b>Elevation (SFT)*</b>	220.734	

  

<b>Convergence Angle</b>	0	15	29.2811385
<b>Scale Factor</b>	1.000085080		
<b>Elevation Adjust. Factor</b>	0.9999894417		
<b>Combined Adjust. Factor</b>	1.0000745208		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRRIGATION PIPE RISER	20	7.00	23.0
<b>MK # 2</b>	COMBINATION POLE	190	7.50	24.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	Elevation by 3-wire from NGS Point X 113
<b>Ref Mon # 2</b> PAGIS 1001	
<b>Ref Mon # 3</b> ALMYPORT AZ MK	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    35    25.5567552
<b>Longitude</b>	91    33    23.0202252
<b>Ellipsoid Height (M):</b>	40.717
<b>Geoid Height (M):</b>	-26.563

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 11.45 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 923. THE SHOT DISTANCE IS 580.046 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590007A	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986, 020325
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	29,195.4187	
<b>Easting (M)</b>	440,714.2644	
<b>Elevation (M)*</b>	66.602	
<b>Northing (SFT)</b>	95,785.3029	
<b>Easting (SFT)</b>	1,445,910.0491	
<b>Elevation (SFT)*</b>	218.510	

  

<b>Convergence Angle</b>	0	15	29.6664753
<b>Scale Factor</b>	1.000083519		
<b>Elevation Adjust. Factor</b>	0.9999895481		
<b>Combined Adjust. Factor</b>	1.0000730662		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	0	33.40	109.6
MK # 2	TELEPHONE MAN HOLE COVER	269	30.30	99.4
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	Elevation by 3-wire from NGS Point Y 113
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 ALMYPORT AZ MK	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 35 44.3724396
<b>Longitude</b>	91 33 22.3580196
<b>Ellipsoid Height (M):</b>	40.032
<b>Geoid Height (M):</b>	-26.570

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 3.14 KM (1.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.28 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 925. THE SHOT DISTANCE IS 580.046 METERS.</p>

<b>AZ Mark Station</b>	590007
<b>Geodetic Azimuth</b>	181 40 01.70325
<b>Grid Azimuth</b>	181 24 32.04146

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590008	<b>Date Monumented</b> 12/30/2002	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 249	<b>Job Number:</b> 061083
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	50,870.4089	
<b>Easting (M)</b>	437,683.2890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	166,897.3332	
<b>Easting (SFT)</b>	1,435,965.9240	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	22.5278379
<b>Scale Factor</b>	1.000030996		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	355	22.50	73.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    480016	
Ref Mon # 2    AHTD MON1	
Ref Mon # 3    AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590008A	<b>Date Monumented</b> 12/30/2002	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 249	<b>Job Number:</b> 061083
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	50,121.0059	
<b>Easting (M)</b>	437,659.2610	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	164,438.6669	
<b>Easting (SFT)</b>	1,435,887.0921	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	21.9061951
<b>Scale Factor</b>	1.000032619		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.27 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	22.50	73.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    480016	
Ref Mon # 2    AHTD MON1	
Ref Mon # 3    AHTD LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590009	<b>Date Monumented</b> 1/24/2008	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 165	<b>Job Number:</b> 001701
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,538.5209	
<b>Easting (M)</b>	433,617.7330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,993,232.6307	
<b>Easting (SFT)</b>	1,422,627.5124	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	17.9048490
<b>Scale Factor</b>	0.999956887		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	253	10.67	35.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ALMYPORT AZ MK	
Ref Mon # 2: ARLR	
Ref Mon # 3: 590007, 59007A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 14.2323072
<b>Longitude</b>	91 38 1.5845496
<b>Ellipsoid Height (M):</b>	34.728
<b>Geoid Height (M):</b>	-26.451

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, GO WEST ON HIGHWAY 165 FOR 2.10 MILES TO THE STATION MARK ON THE LEFT, SOUTH 87.0 FEET OF THE CENTER OF THE HIGHWAY AND NORTH 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590010	<b>Date Monumented</b> 1/24/2008	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> NA	<b>Job Number:</b> 001701
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,155.7709	
<b>Easting (M)</b>	437,134.0850	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,991,976.8917	
<b>Easting (SFT)</b>	1,434,164.0772	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	35.0543543
<b>Scale Factor</b>	0.999956343		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	48	25.30	83.0
MK # 2	TELEPHONE PEDASTAL	81	1.46	4.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 ARLR	
Ref Mon # 3 590007, 590007A	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 32 1.3811496
<b>Longitude</b>	91 35 43.7414388
<b>Ellipsoid Height (M):</b>	32.713
<b>Geoid Height (M):</b>	-26.467

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, AT THE JUNCTION OF THE HIGHWAY AND THE COUNTY LINE TURN SOUTH ON A GRAVEL ROAD (WESINGER RD.) AND GO 0.20 MILES TO THE MARK ON THE RIGHT, WEST 34.3 FEET OF THE CENTER OF THE ROAD AND WEST 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590010 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590011	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> I 40	<b>Job Number:</b> 001726
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	638,776.0871	
<b>Easting (M)</b>	439,628.7520	
<b>Elevation (M)*</b>	71.140	
<b>Northing (SFT)</b>	2,095,717.8791	
<b>Easting (SFT)</b>	1,442,348.6639	
<b>Elevation (SFT)*</b>	233.400	

  

<b>Convergence Angle</b>	0	14	32.7456235
<b>Scale Factor</b>	1.000012015		
<b>Elevation Adjust. Factor</b>	0.9999888359		
<b>Combined Adjust. Factor</b>	1.0000008508		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE STATION MARK IS AT THE SOUTHWEST CORNER OF THE HIGHWAY 63 BRIDGE OVER I 40 (EXIT 193), NORTH OF HAZEN. THE MARK IS WEST 18.3 FEET OF THE CENTERLINE OF HIGHWAY 63 AND WEST OF A WITNESS POST 2.8 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "59001 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	336	9.14	30.0
MK # 2	1'X2' DROP INLET	130	3.60	11.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARBT Ref Mon # 2    ARLR Ref Mon # 3    MSB6	<b>Comments</b>  ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590011A	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 001726
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	638,124.6001	
<b>Easting (M)</b>	439,623.4170	
<b>Elevation (M)*</b>	67.503	
<b>Northing (SFT)</b>	2,093,580.4588	
<b>Easting (SFT)</b>	1,442,331.1606	
<b>Elevation (SFT)*</b>	221.465	

  

<b>Convergence Angle</b>	0	14	32.5674370
<b>Scale Factor</b>	1.000010617		
<b>Elevation Adjust. Factor</b>	0.9999894068		
<b>Combined Adjust. Factor</b>	1.0000000237		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 63/11, NORTH OF HAZEN, GO SOUTH ON HIGHWAY 11/63 FOR 0.4 MILES TO THE MARK ON THE RIGHT, WEST 35.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 2.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590011A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBT</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    MSB6</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590012	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> I 40	<b>Job Number:</b> 001726
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	639,171.0890	
<b>Easting (M)</b>	444,691.0950	
<b>Elevation (M)*</b>	66.011	

  

<b>Northing (SFT)</b>	2,097,013.8145	
<b>Easting (SFT)</b>	1,458,957.3675	
<b>Elevation (SFT)*</b>	216.572	

  

<b>Convergence Angle</b>	0 16	24.2737263
<b>Scale Factor</b>	1.000012819	
<b>Elevation Adjust. Factor</b>	0.9999896408	
<b>Combined Adjust. Factor</b>	1.0000024597	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 49 19.2658512
<b>Longitude</b>	91 30 41.3969904
<b>Ellipsoid Height (M):</b>	39.123
<b>Geoid Height (M):</b>	-26.888

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND THE WHITE RIVER, NORTHWEST OF BISCOE, GO WEST ON I 40 3.35 MILES TO THE MARK ON THE RIGHT, NORTH 8 FEET FROM THE ASPHALT SHOULDER AND SOUTH 40 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590012A	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> I 40	<b>Job Number:</b> 001726
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	638,848.7970				
<b>Easting (M)</b>	443,873.1830				
<b>Elevation (M)*</b>	66.928				
<b>Northing (SFT)</b>	2,095,956.4282				
<b>Easting (SFT)</b>	1,456,273.9346				
<b>Elevation (SFT)*</b>	219.580				

  

<b>Convergence Angle</b>	0	16	6.2271014
<b>Scale Factor</b>	1.000012131		
<b>Elevation Adjust. Factor</b>	0.9999894969		
<b>Combined Adjust. Factor</b>	1.0000016278		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND HIGHWAY 11 (EXIT 193), NORTH OF HAZEN, GO EAST ON I 40 2.6 MILES TO THE MARK ON THE LEFT, SOUTH 15.5 FEET FROM THE SOUTH EDGE OF THE WEST BOUND EDGE OF PAVEMENT AND NORTH 1.5 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590013	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> I 40	<b>Job Number:</b> 001726
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	640,698.4491	
<b>Easting (M)</b>	448,193.3650	
<b>Elevation (M)*</b>	58.548	
<b>Northing (SFT)</b>	2,102,024.8284	
<b>Easting (SFT)</b>	1,470,447.7317	
<b>Elevation (SFT)*</b>	192.088	

  

<b>Convergence Angle</b>	0	17	41.5793007
<b>Scale Factor</b>	1.000016113		
<b>Elevation Adjust. Factor</b>	0.9999908119		
<b>Combined Adjust. Factor</b>	1.0000069248		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF HIGHWAY 11 AND I 40 (EXIT 193), NORTH OF HAZEN, GO EAST ON I 40 FOR 5.5 MILES TO THE HIGHWAY REST AREA EXIT RAMP. TAKE THE EXIT RAMP AND GO 0.05 MILES TO THE MARK ON THE LEFT IN THE MEDIAN, BETWEEN THE EXIT RAMP AND I 40 EAST BOUND LANES, 8.5 FEET NORTH OF NORTH EDGE OF EXIT RAMP AND 30.0 FEET SOUTH OF SOUTH EDGE OF THE EAST BOUND LANE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590013 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBT</p> <p><b>Ref Mon # 2</b>    ARLR</p> <p><b>Ref Mon # 3</b>    MSB6</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590013A	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> I 40	<b>Job Number:</b> 001726
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	640,959.8680	
<b>Easting (M)</b>	448,518.5810	
<b>Elevation (M)*</b>	61.595	
<b>Northing (SFT)</b>	2,102,882.5003	
<b>Easting (SFT)</b>	1,471,514.7112	
<b>Elevation (SFT)*</b>	202.084	

  

<b>Convergence Angle</b>	0	17	48.7727054
<b>Scale Factor</b>	1.000016686		
<b>Elevation Adjust. Factor</b>	0.9999903338		
<b>Combined Adjust. Factor</b>	1.0000070196		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NE OF NE CORNER OF CHAINLINK FENCE	261	24.63	80.8
<b>MK # 2</b>	LIGHT POLE		26.21	86.0
<b>MK # 3</b>	LIGHT POLE		28.29	92.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> MSB6	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590014	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 33	<b>Job Number:</b> 001726
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	641,935.3341	
<b>Easting (M)</b>	453,534.2210	
<b>Elevation (M)*</b>	64.523	
<b>Northing (SFT)</b>	2,106,082.8420	
<b>Easting (SFT)</b>	1,487,970.1901	
<b>Elevation (SFT)*</b>	211.690	

  

<b>Convergence Angle</b>	0	19	39.3783488
<b>Scale Factor</b>	1.000018790		
<b>Elevation Adjust. Factor</b>	0.9999898743		
<b>Combined Adjust. Factor</b>	1.0000086641		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CATCH BASIN	358	8.53	28.0
<b>MK # 2</b>	NORTHWEST COR OF BLDGING	135	41.15	135.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> MSB6	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 50 47.4598176
<b>Longitude</b>	91 24 52.8033348
<b>Ellipsoid Height (M):</b>	37.629
<b>Geoid Height (M):</b>	-26.890

Location Description
<p>THE STATION MARK IS AT THE NORTHWEST CORNER OF THE HIGHWAY 33 BRIDGE OVER I 40, NORTH OF DEVALLS BLUFF, 20 FEET WEST OF THE CENTERLINE OF HIGHWAY 33 AND 3.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590014A	<b>Date Monumented</b> 4/12/2011	<b>Monumented By</b> AHTD	<b>County</b> PRAIRIE	<b>Route</b> 33	<b>Job Number:</b> 001726
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	642,611.4060		
<b>Easting (M)</b>	453,557.8300		
<b>Elevation (M)*</b>	53.118		
<b>Northing (SFT)</b>	2,108,300.9212		
<b>Easting (SFT)</b>	1,488,047.6473		
<b>Elevation (SFT)*</b>	174.272		

  

<b>Convergence Angle</b>	0	19	39.9836550
<b>Scale Factor</b>	1.000020303		
<b>Elevation Adjust. Factor</b>	0.9999916641		
<b>Combined Adjust. Factor</b>	1.0000119669		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 33, NORTH OF DEVALLS BLUFF, GO NORTH ON HIGHWAY 33 FOR 0.3 MILES TO THE MARK ON THE RIGHT, EAST 21 FEET OF THE CENTERLINE AND WEST 38.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	100	12.19	40.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590015	<b>Date Monumented</b> 	<b>Monumented By</b> CLS	<b>County</b> PRAIRIE	<b>Route</b> 70	<b>Job Number:</b> 110664
--------------------------	----------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	640,243.1615	0.0030			
<b>Easting (M)</b>	456,904.4258	0.0030			
<b>Elevation (M)*</b>	57.064	0.0066			
<b>Northing (SFT)</b>	2,100,531.1057				
<b>Easting (SFT)</b>	1,499,027.2703				
<b>Elevation (SFT)*</b>	187.217				

  

<b>Convergence Angle</b>	0	20	53.3968818
<b>Scale Factor</b>	1.000015007		
<b>Elevation Adjust. Factor</b>	0.9999910449		
<b>Combined Adjust. Factor</b>	1.0000060518		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 7.77 MILES.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N OF EP HWY 70		2.07	6.8
MK # 2	SE OF PP WITH GY E SIDE OF BRASFIELD R D INTERSECTION		10.94	35.9
MK # 3	S OF WITNESS POST		3.51	11.5

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    ARWY Ref Mon # 3    MSB5	<b>Comments</b> Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590015A	<b>Date Monumented</b> 	<b>Monumented By</b> CLS	<b>County</b> PRAIRIE	<b>Route</b> 70	<b>Job Number:</b> 110664
---------------------------	----------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	640,108.0994	0.0020			
<b>Easting (M)</b>	456,468.4098	0.0020			
<b>Elevation (M)*</b>	58.600	0.0067			
<b>Northing (SFT)</b>	2,100,087.9894				
<b>Easting (SFT)</b>	1,497,596.7745				
<b>Elevation (SFT)*</b>	192.256				

  

<b>Convergence Angle</b>	0	20	43.7753355
<b>Scale Factor</b>	1.000014717		
<b>Elevation Adjust. Factor</b>	0.9999908039		
<b>Combined Adjust. Factor</b>	1.0000055207		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	S OF EP HWY 70		2.90	9.5
<b>MK # 2</b>	N OF WITNESS POST		2.53	8.3
<b>MK # 3</b>	W OF FIELD ENTRANCE		76.20	250.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 8.07 MILES.	

  

<b>AZ Mark Station</b>	590015
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590016	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> PRAIRIE	<b>Route</b> 86	<b>Job Number:</b> 06X284
--------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	626,941.7892	0.0020
<b>Easting (M)</b>	429,223.2331	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	2,056,891.5201	
<b>Easting (SFT)</b>	1,408,209.8906	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	10	42.7740273
<b>Scale Factor</b>	0.999988338		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> ARWY	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    34    42    44.3950092

**Longitude**    91    40    51.5548992

**Ellipsoid Height (M):**    39.298    0.0100

**Geoid Height (M):**    -26.799    0.0100

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.85 MILES TO THE MARK ON THE LEFT, EAST 42.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	590016A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590016A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> PRAIRIE	<b>Route</b> 86	<b>Job Number:</b> 06X284
---------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	627,423.0500	0.0020			
<b>Easting (M)</b>	429,231.7572	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,058,470.4565				
<b>Easting (SFT)</b>	1,408,237.8567				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	10	42.9945143
<b>Scale Factor</b>	0.999989236		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.55 MILES TO THE MARK ON THE LEFT, EAST 39' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	590016
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590017	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> PRAIRIE	<b>Route</b> 86	<b>Job Number:</b> 06X281
--------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	628,738.7840	0.0040			
<b>Easting (M)</b>	441,594.5968	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,062,787.1605				
<b>Easting (SFT)</b>	1,448,798.2730				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	15	15.0582978
<b>Scale Factor</b>	0.999991633		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END CULVERT	303	6.28	20.6
<b>MK # 2</b>	POWER POLE	258	4.21	13.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARPB <b>Ref Mon # 3</b> ARWY	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    34    43    41.1939408

**Longitude**    91    32    45.0642768

**Ellipsoid Height (M):**    39.117    0.0150

**Geoid Height (M):**    -26.879    0.0150

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH 34.8' OF THE C/L OF THE HIGHWAY AND 36.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 590017A	<b>Date Monumented</b> 12/14/2020	<b>Monumented By</b> ARDOT	<b>County</b> PRAIRIE	<b>Route</b> 86	<b>Job Number:</b> 06X281
---------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 628,728.1651	<b>0.0050</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 442,050.9556	<b>0.0050</b>	<b>Latitude</b> 34 43 40.7832816
<b>Elevation (M)*</b>		<b>Longitude</b> 91 32 27.1285476
<b>Northing (SFT)</b> 2,062,752.3217		<b>Ellipsoid Height (M):</b> 39.217 0.0150
<b>Easting (SFT)</b> 1,450,295.5102		<b>Geoid Height (M):</b> -26.879 0.0150
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 15 25.0967584	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.65 MILES TO THE MARK ON THE RIGHT, SOUTH 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 0.999991608	
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	2.77	9.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARLR	
Ref Mon # 2 ARPB	
Ref Mon # 3 ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600001	<b>Date Monumented</b> 3/28/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 338	<b>Job Number:</b> OFFICE
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 37,740.6969		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 364,758.9490		<b>Latitude</b> 34 40 22.4062608
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 23 4.1829216
<b>Northing (SFT)</b> 123,820.9364		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,196,713.3185		<b>Geoid Height (M):</b> 
<b>Elevation (SFT)*</b> 		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> 0 13 25.4548351		
<b>Scale Factor</b> 1.000061399		
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				<b>AZ Mark Station</b>
MK # 2	NONE				<b>Geodetic Azimuth</b>
MK # 3	NONE				<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;">           Old point number 90600001         </div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600002	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 338	<b>Job Number:</b> 60209, OFFICE
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	622,578.5109	
<b>Easting (M)</b>	365,032.0380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,042,576.3312	
<b>Easting (SFT)</b>	1,197,609.2780	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	48.7723415
<b>Scale Factor</b>	0.999980421		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE STATION IS LOCATED NEAR THE EAST EDGE OF THE DRIVEWAY LEADING TO THE MAIL ROOM AT THE REAR OF THE OFFICES OF THE ARKANSAS HIGHWAY DEPARTMENT. 27 FEET SOUTH OF THE PERIMETER ROAD AROUND THESE OFFICES. 7.90 FEET NORTH OF THE NORTH EDGE OF A CONCRETE DITCH AND 39.50 FEET NORTH OF THE CENTER OF A WALKING TRAIL. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "90600002".				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	STOP SIGN	280	1.43	4.7		90600003
MK # 2						123 38 01
MK # 3						123 50 50

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ADAMS 2 Ref Mon # 2: ROCKPORT Ref Mon # 3: SALIPORT	OLD PN = 90600002

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600003	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 338	<b>Job Number:</b> 60209, OFFICE
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	622,403.4559	
<b>Easting (M)</b>	365,293.0670	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,042,002.0049	
<b>Easting (SFT)</b>	1,198,465.6706	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	43.0194236
<b>Scale Factor</b>	0.999980117		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	108	4.24	13.9
MK # 2	TELEPHONE RISER	250	2.44	8.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALIPORT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	SALIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 90600003</td> </tr> </table>	Comments	OLD PN = 90600003
Ref Mon # 1	ADAMS 2								
Ref Mon # 2	ROCKPORT								
Ref Mon # 3	SALIPORT								
Comments									
OLD PN = 90600003									

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 40 16.5115920
<b>Longitude</b>	92 22 43.2876900
<b>Ellipsoid Height (M):</b>	61.044
<b>Geoid Height (M):</b>	-26.386

Location Description
THE STATION IS LOCATED EAST ALONG THE NORTH FRONTAGE ROAD OF I-30 FROM THE ARKANSAS HIGHWAY DEPARTMENT MAIN BUILDING, 6.0ft. SOUTH OF THE CHAIN LINK FENCE SURROUNDING THE RADIO SHOP. 42 FEET WEST OF THE CONCRETE DRIVEWAY LEADING INTO A QUICK MART. 39 FEET NORTH OF THE CENTER OF THE FRONTAGE ROAD AND 2.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "90600003".

<b>AZ Mark Station</b>	90600002
<b>Geodetic Azimuth</b>	303 38 07
<b>Grid Azimuth</b>	303 50 50

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600004	<b>Date Monumented</b> 3/28/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 338	<b>Job Number:</b> OFFICE
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 37,358.6208		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 364,807.6290		<b>Latitude</b> 34 40 10.0143228
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 23 2.2123932
<b>Northing (SFT)</b> 122,567.4084		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,196,873.0295		<b>Geoid Height (M):</b> 
<b>Elevation (SFT)*</b> 		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> 0 13 24.3081864		
<b>Scale Factor</b> 1.000062347		
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 100px; margin-top: 5px;">           Old point number 90600004         </div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600007	<b>Date Monumented</b> 3/23/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 5	<b>Job Number:</b> 6965
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------	----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	626,809.3030	
<b>Easting (M)</b>	366,192.7580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,056,456.8549	
<b>Easting (SFT)</b>	1,201,417.4069	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	23.5893978
<b>Scale Factor</b>	0.999988063		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS 15 FEET WEST OF THE CENTERLINE OF COBB STREET, 110 FEET NORTH OF THE CENTERLINE OF ASHER AVE., 3.5 FEET EAST OF THE EDGE OF A SIDEWALK AND 13 FEET NORTH OF THE 1ST DRIVE ON THE LEFT SIDE OF COBB STREET.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT IN CENTER OF SS MANHOLE COVER	9	24.97	81.9	
MK # 2	NBC IN COMBINATION POLE	153	20.26	66.5	
MK # 3	NBC IN 10" SWEET GUM	183	24.48	80.3	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="PAGIS 1004"/> <b>Ref Mon # 2</b> <input type="text" value="PAGIS 1006"/> <b>Ref Mon # 3</b> <input type="text" value="PAGIS 1007"/>	Old point number 90600007

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600009	<b>Date Monumented</b> 5/29/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 60517
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	51,586.3839	
<b>Easting (M)</b>	374,164.7590	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	169,246.3278	
<b>Easting (SFT)</b>	1,227,572.2135	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	51.3882409
<b>Scale Factor</b>	1.000029368		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS NORTHWEST OF THE INTERSECTION OF 47TH AND DIVISION STREETS IN NORTH LITTLE ROCK BETWEEN POWER SUB STATION AND THE INTERSECTION.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	285	6.37	20.9
<b>MK # 2</b>	NBC IN COMBINATION POLE	67	6.35	20.8
<b>MK # 3</b>	NBC IN COMBINATION POLE	152	5.70	18.7

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> TIE <b>Ref Mon # 2</b> PAGIS 1004 <b>Ref Mon # 3</b> PAGIS 1005	<b>Comments</b> Old point number 90600009
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600010	<b>Date Monumented</b> 5/29/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 60517
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	51,685.0980				
<b>Easting (M)</b>	374,169.9030				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	169,570.1924				
<b>Easting (SFT)</b>	1,227,589.0901				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	9	51.2769695
<b>Scale Factor</b>	1.000029157		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>FROM JCT. OF 47TH STREET IN NORTH LITTLE ROCK, GO NORTH 330 FEET ON DIVISION STREET. THE STATION IS 40 FEET WEST OF THE CENTERLINE OF DIVISION STREET, 75 FEET NORTH AND 27 FEET EAST OF THE NORTHEAST CORNER OF THE POWER SUB STATION AND IS ACROSS THE STREET FROM THE 4TH HOUSE FROM THE JCT. OF 47TH AND DIVISION STREETS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	163	16.67	54.7
<b>MK # 2</b>	NBC IN COMBINATION POLE	175	16.08	52.7
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> TIE</p> <p><b>Ref Mon # 2</b> PAGIS 1004</p> <p><b>Ref Mon # 3</b> PAGIS 1005</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Old point number 90600010</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600011	<b>Date Monumented</b> 5/29/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 60517
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	51,604.1680	
<b>Easting (M)</b>	375,971.4870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	169,304.6745	
<b>Easting (SFT)</b>	1,233,499.7869	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	10.0321580
<b>Scale Factor</b>	1.000029320		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 4" CRAPE MYRTLE	14	18.04	59.2
MK # 2	NBC IN 4" CRAPE MYRTLE	196	8.21	26.9
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	
<b>Ref Mon # 1</b>	TIE
<b>Ref Mon # 2</b>	PAGIS 1004
<b>Ref Mon # 3</b>	PAGIS 1005

  

Comments
OLD PN:90600011. THE 2 1/2" STANDARD ALUMINUM DISK WAS REMOVED BY THE RESIDENT ENGINEER'S OFFICE AND THE 3/4" REBAR DRIVEN DOWN AND LEFT IN PLACE. SINCE THE MONUMENT WAS DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600012	<b>Date Monumented</b> 5/29/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 60517
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 51,797.6889		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 376,054.7830		<b>Latitude</b> 34 47 59.7526548
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 15 41.9798016
<b>Northing (SFT)</b> 169,939.5843		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,233,773.0672		<b>Geoid Height (M):</b> -27.640
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 9 8.1372252	<b>Location Description</b>  THE STATION IS ON MC CAIN BLVD. IN NORTH LITTLE ROCK, 18 FEET EAST OF THE NORTHBOUND LANES, 17 FEET WEST OF THE SOUTHBOUND LANES AND 94 FEET FROM A BREAK IN THE MEDIAN THAT ALLOWS TURNS ONTO VELVET RIDGE ROAD ACROSS FROM THE TENNIS COURTS.
<b>Scale Factor</b> 1.000028906	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 TIE	Old point number 90600012
Ref Mon # 2 PAGIS 1004	
Ref Mon # 3 PAGIS 1005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600013	<b>Date Monumented</b> 2/22/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 060110,061190,012119
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	53,339.2419	
<b>Easting (M)</b>	367,686.0960	
<b>Elevation (M)*</b>	83.535	
<b>Northing (SFT)</b>	174,997.1628	
<b>Easting (SFT)</b>	1,206,316.8000	
<b>Elevation (SFT)*</b>	274.064	

  

<b>Convergence Angle</b>	0	12	19.8325203
<b>Scale Factor</b>	1.000025701		
<b>Elevation Adjust. Factor</b>	0.9999868908		
<b>Combined Adjust. Factor</b>	1.0000125915		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
FROM THE ARKANSAS RIVER BRIDGE ON I-430, GO NORTH ON I-430 1.13 MILES TO THE STATION ON THE LEFT. THE STATION IS BY THE BRIDGES OVER WHITE OAK CREEK IN THE CENTER OF THE MEDIAN AND 21.60 FEET SOUTH OF A WITNESS POST.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	'X' CUT IN TOP OF CONCRETE POST	348	4.95	16.2
<b>MK # 2</b>	'X' CUT IN TOP OF CONCRETE POST	60	12.16	39.9
<b>MK # 3</b>	PUNCH POINT IN TOP GUARD RAIL POST	165	6.59	21.6

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.
<b>Ref Mon # 1</b>	ROCKPORT	
<b>Ref Mon # 2</b>	SEARPORT	
<b>Ref Mon # 3</b>	AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600013A Reset	<b>Date Monumented</b> 8/18/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 430	<b>Job Number:</b> 60117,061190,R60101,01211
---------------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	53,050.8940	
<b>Easting (M)</b>	367,480.5510	
<b>Elevation (M)*</b>	89.592	
<b>Northing (SFT)</b>	174,051.1414	
<b>Easting (SFT)</b>	1,205,642.4411	
<b>Elevation (SFT)*</b>	293.936	

  

<b>Convergence Angle</b>	0	12	24.5146378
<b>Scale Factor</b>	1.000026308		
<b>Elevation Adjust. Factor</b>	0.9999859403		
<b>Combined Adjust. Factor</b>	1.0000122479		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	3" SWEET GUM	232	8.30	27.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: 600048	3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.
Ref Mon # 2: LROC	
Ref Mon # 3: 600062	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600014	<b>Date Monumented</b> 12/18/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060110, r60101
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 56,511.3410		<b>Latitude</b> 34 50 32.4482064
<b>Easting (M)</b> 373,191.1920		<b>Longitude</b> 92 17 35.1818340
<b>Elevation (M)*</b> 159.940		<b>Ellipsoid Height (M):</b> 133.084
		<b>Geoid Height (M):</b> -26.856

  

<b>Northing (SFT)</b> 185,404.2913		<b>Location Description</b>
<b>Easting (SFT)</b> 1,224,378.1024		FROM THE JCT. OF 16TH AND "H" STREETS ON CAMP ROBINSON, GO LEFT ON "H" AVENUE (GRAVEL) 0.30 MILES TO A DIRT ROAD ON THE RIGHT, TURN RIGHT AND GO NORTH FOR 0.20 MILES TO THE STATION ON THE RIGHT AND 2.68 FEET SOUTH OF A WITNESS POST.
<b>Elevation (SFT)*</b> 524.736		
<b>Convergence Angle</b> 0 10 14.0093891		
<b>Scale Factor</b> 1.000019136		
<b>Elevation Adjust. Factor</b> 0.9999749008		
<b>Combined Adjust. Factor</b> 0.9999940363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	NBC IN 10" OAK	18		43.70	143.4
<b>MK # 2</b>	NBC IN 12" PINE	132		36.14	118.6
<b>MK # 3</b>	NBC IN 12" OAK	294		36.89	121.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 600048	
<b>Ref Mon # 2</b> ROCKPORT, 600050	
<b>Ref Mon # 3</b> 600046	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600014A	<b>Date Monumented</b> 2/22/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060110
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	56,424.7790				
<b>Easting (M)</b>	373,394.1110				
<b>Elevation (M)*</b>	154.692				
<b>Northing (SFT)</b>	185,120.2958				
<b>Easting (SFT)</b>	1,225,043.8458				
<b>Elevation (SFT)*</b>	507.519				

  

<b>Convergence Angle</b>	0	10	9.3560505
<b>Scale Factor</b>	1.000019310		
<b>Elevation Adjust. Factor</b>	0.9999757244		
<b>Combined Adjust. Factor</b>	0.9999950339		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 16" PINE	285	77.58	254.5
<b>MK # 2</b>	NBC IN 12" PINE	319	108.21	355.0
<b>MK # 3</b>	NBC IN 12" OAK	338	67.23	220.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 600046	
<b>Ref Mon # 2</b> ROCKPORT, 600050	
<b>Ref Mon # 3</b> 600048	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600015	<b>Date Monumented</b> 2/22/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110, R60101
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	57,656.1510	
<b>Easting (M)</b>	378,033.6590	
<b>Elevation (M)*</b>	159.878	
<b>Northing (SFT)</b>	189,160.2221	
<b>Easting (SFT)</b>	1,240,265.4296	
<b>Elevation (SFT)*</b>	524.533	

  

<b>Convergence Angle</b>	0	8	23.1655063
<b>Scale Factor</b>	1.000016815		
<b>Elevation Adjust. Factor</b>	0.9999749106		
<b>Combined Adjust. Factor</b>	0.9999917251		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 3" PINE	65	23.59	77.4
<b>MK # 2</b>	NBC IN 3" PINE	112	25.91	85.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 600046	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
<b>Ref Mon # 2</b> ROCKPORT, 600050	
<b>Ref Mon # 3</b> 600048	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 51 10.0227456
<b>Longitude</b>	92 14 24.6954120
<b>Ellipsoid Height (M):</b>	133.012
<b>Geoid Height (M):</b>	-26.863

Location Description
<p>FROM THE PARKING LOT AT THE KEVIN MC REYNOLDS BASEBALL PARK IN SHERWOOD, GO TO THE NORTHWEST CORNER OF THE LOT TO A DIRT ROAD NORTH, GO 0.13 MILES TO THE STATION ON THE LEFT AND 3.0 FEET SOUTH OF A WITNESS POST.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600015A	<b>Date Monumented</b> 2/22/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110, R60101
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	57,482.5220	
<b>Easting (M)</b>	378,181.6740	
<b>Elevation (M)*</b>	158.747	
<b>Northing (SFT)</b>	188,590.5743	
<b>Easting (SFT)</b>	1,240,751.0421	
<b>Elevation (SFT)*</b>	520.824	

  

<b>Convergence Angle</b>	0	8	19.7654205
<b>Scale Factor</b>	1.000017160		
<b>Elevation Adjust. Factor</b>	0.9999750880		
<b>Combined Adjust. Factor</b>	0.9999922475		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN LIGHT POLE		145		23.35	76.6
MK # 2	NBC IN LIGHT POLE		223		56.82	186.4
MK # 3	NBC IN 16" HICKORY		335		44.50	146.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600017	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 30	<b>Job Number:</b> 60209
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	621,622.0799	
<b>Easting (M)</b>	363,684.5330	
<b>Elevation (M)*</b>	90.416	
<b>Northing (SFT)</b>	2,039,438.4405	
<b>Easting (SFT)</b>	1,193,188.3387	
<b>Elevation (SFT)*</b>	296.640	

  

<b>Convergence Angle</b>	0	13	18.3156326
<b>Scale Factor</b>	0.999978748		
<b>Elevation Adjust. Factor</b>	0.9999858110		
<b>Combined Adjust. Factor</b>	0.9999645593		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE INTERSECTION OF I-30 AND EXIT 130 JUST SOUTH OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICES, TAKE THE SOUTH SERVICE ROAD AND GO SOUTHWEST FOR 1.28 KM (0.80 MILES) TO SIBLEY HOLE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 13.14 METERS SOUTHEAST OF THE EDGE OF THE EAST BOUND CONCRETE LANES, 6.35 METERS NORTHWEST OF THE CENTERLINE OF THE SERVICE ROAD, 26.25 METERS WEST OF THE JUNCTION OF THE SERVICE ROAD AND SIBLEY HOLE ROAD AND 19.0 METERS NORTHWEST OF A WITNESS POST JUST IN FRONT OF A CHAIN LINK FENCE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	50	14.02	46.0
MK # 2	NBC IN POWER POLE	103	32.34	106.1
MK # 3	CENTER OF TOP OF CONCRETE R/W MARK	140	19.51	64.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ADAMS 2</p> <p>Ref Mon # 2    ROCKPORT</p> <p>Ref Mon # 3    93600016 AHTD GPS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600017A	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 30	<b>Job Number:</b> 60209
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	621,893.0920		
<b>Easting (M)</b>	364,298.3020		
<b>Elevation (M)*</b>	88.239		
<b>Northing (SFT)</b>	2,040,327.5860		
<b>Easting (SFT)</b>	1,195,202.0125		
<b>Elevation (SFT)*</b>	289.497		

  

<b>Convergence Angle</b>	0	13	4.8460722
<b>Scale Factor</b>	0.999979221		
<b>Elevation Adjust. Factor</b>	0.9999861526		
<b>Combined Adjust. Factor</b>	0.9999653739		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PAGIS POINT #2049	223	47.29	155.2
<b>MK # 2</b>	NBC IN COMBINATION POLE	86	39.07	128.2
<b>MK # 3</b>	6" PIPE GATE POST	105	24.15	79.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	
<b>Ref Mon # 2</b> ROCKPORT	
<b>Ref Mon # 3</b> 93600016 AHTD GPS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600020	<b>Date Monumented</b> 6/8/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 176	<b>Job Number:</b> B60117, 60620,061348
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	52,160.9518
<b>Easting (M)</b>	375,644.3030
<b>Elevation (M)*</b>	98.431
<b>Northing (SFT)</b>	171,131.3894
<b>Easting (SFT)</b>	1,232,426.3508
<b>Elevation (SFT)*</b>	322.937

  

<b>Convergence Angle</b>	0	9	17.5560810
<b>Scale Factor</b>	1.000028135		
<b>Elevation Adjust. Factor</b>	0.9999845531		
<b>Combined Adjust. Factor</b>	1.0000126877		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	48	11.5184016
<b>Longitude</b>	92	15	58.1524020
<b>Ellipsoid Height:</b>	70.808		
<b>Grid Northing (Meters)</b>	52,161.3709		
<b>Grid Easting (Meters)</b>	375,644.6550		

  

Location Description				
<p>FROM THE JCT. OF HWY. 176 (CAMP ROBINSON ROAD) AND 47 TH STREET IN NORTH LITTLE ROCK. GO NORTH ON HWY. 176 FOR 0.70 KM (0.43 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS EAST OF THE CENTERLINE OF HWY. 176, 59.0 METERS NORTH OF THE CENTER OF EAST 52ND STREET, 19.3 METERS SOUTH OF A CONCRETE DRIVEWAY AND 2.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600020" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 3 CM BELOW THE SURFACE OF AN ASPHALT PARKING LOT.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	284	3.10	10.2
MK # 2	NBC IN COMBINATION POLE	319	23.70	77.8
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ROCKPORT <b>Ref Mon # 2</b> ADAMS 2 <b>Ref Mon # 3</b> 93600013	OLD ELEV. 98.460 m, Cross Reference Job: 060655 *****NEW ELEV. BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600021	<b>Date Monumented</b> 6/8/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> B60117, 60620
--------------------------	------------------------------------	------------------------------	--------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 50,127.0679		<b>Latitude</b> 34 47 5.4235356
<b>Easting (M)</b> 374,725.4310		<b>Longitude</b> 92 16 34.0905432
<b>Elevation (M)*</b> 105.406		<b>Ellipsoid Height (M):</b> 77.794
<b>Northing (SFT)</b> 164,458.5553		<b>Geoid Height (M):</b> -27.612
<b>Easting (SFT)</b> 1,229,411.6849		
<b>Elevation (SFT)*</b> 345.820		

  

<b>Convergence Angle</b> 0 9 38.4604203	<b>Scale Factor</b> 1.000032512	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999834586	<b>Combined Adjust. Factor</b> 1.0000159701	<p>FROM THE LEVY EXIT (NO. 152) ON I-40 IN NORTH LITTLE ROCK, GO WEST ON I-40 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.05 METERS NORTHEAST OF THE NORTH EDGE OF THE WESTBOUND LANE OF I-40 AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600021" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	"X" CUT IN CONCRETE GUARD RAIL POST	233		18.27	59.9
<b>MK # 2</b>	"X" CUT IN CONCRETE GUARD RAIL POST	266		31.16	102.2
<b>MK # 3</b>	"X" CUT IN CONCRETE GUARD RAIL POST	251		22.36	73.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ROCKPORT	Cross Reference Job: 060655
<b>Ref Mon # 2</b> ADAMS 2	
<b>Ref Mon # 3</b> 93600013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600021A	<b>Date Monumented</b> 6/8/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> 60620
---------------------------	------------------------------------	------------------------------	--------------------------	----------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	50,270.2179	
<b>Easting (M)</b>	374,405.8280	
<b>Elevation (M)*</b>	102.511	
<b>Northing (SFT)</b>	164,928.2066	
<b>Easting (SFT)</b>	1,228,363.1207	
<b>Elevation (SFT)*</b>	336.322	

  

<b>Convergence Angle</b>	0	9	45.7844559
<b>Scale Factor</b>	1.000032203		
<b>Elevation Adjust. Factor</b>	0.9999839129		
<b>Combined Adjust. Factor</b>	1.0000161154		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	"X" CUT IN BRIDGE END	328			10.74	35.2
MK # 2	"X" CUT IN BRIDGE END	133			4.24	13.9
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	265			5.96	19.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ROCKPORT	Cross Reference Job: 060655 / Error in Desc. NEED DISTANCE AND DIRECTION TO WITNESS POST (ON DESCRIPTION FORM).
Ref Mon # 2 ADAMS 2	
Ref Mon # 3 93600013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600022	<b>Date Monumented</b> 9/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 100	<b>Job Number:</b> 60536,012119
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	60,658.4440	
<b>Easting (M)</b>	364,033.1990	
<b>Elevation (M)*</b>	84.058	
<b>Northing (SFT)</b>	199,010.2450	
<b>Easting (SFT)</b>	1,194,332.2537	
<b>Elevation (SFT)*</b>	275.780	

  

<b>Convergence Angle</b>	0	13	44.1349374
<b>Scale Factor</b>	1.000011036		
<b>Elevation Adjust. Factor</b>	0.9999868087		
<b>Combined Adjust. Factor</b>	0.9999978446		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	86	10.35	34.0
<b>MK # 2</b>	CENTER OF A MANHOLE	355	26.55	87.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SALTILLO	
<b>Ref Mon # 2</b> ROCKPORT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 52 45.9851448
<b>Longitude</b>	92 23 36.2848812
<b>Ellipsoid Height (M):</b>	56.099
<b>Geoid Height (M):</b>	-27.959

Location Description
<p>FROM THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN, GO SOUTH ON HWY. 100 FOR 0.386 KM (0.24 MILES) TO A RAILROAD CROSSING. CONTINUE AHEAD FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN BETWEEN THE LANES. THE STATION 13.7 METERS EAST OF THE WESTBOUND LANE, 9.70 METERS WEST OF THE EASTBOUND LANE AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600023" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600022A	<b>Date Monumented</b> 9/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 061097, 60536,012119
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	61,147.7670	
<b>Easting (M)</b>	364,120.5890	
<b>Elevation (M)*</b>	85.501	
<b>Northing (SFT)</b>	200,615.6322	
<b>Easting (SFT)</b>	1,194,618.9657	
<b>Elevation (SFT)*</b>	280.514	

  

<b>Convergence Angle</b>	0	13	42.1772181
<b>Scale Factor</b>	1.000010099		
<b>Elevation Adjust. Factor</b>	0.9999865823		
<b>Combined Adjust. Factor</b>	0.9999966812		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED AT THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN NEAR THE SOUTH EDGE OF A PARKING LOT OWNED BY "COST PLUS QUALITY FOODS". THE STATION IS 11.65 METERS NORTH OF THE CENTERLINE OF HWY. 365, 7.0 METERS SOUTH OF THE SOUTH EDGE OF THE PARKING LOT, 20.15 METERS WEST OF AN ENTRANCE TO THE PARKING LOT, 30.70 METERS EAST OF AN ENTRANCE TO THE PARKING LOT AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600022A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL SIGN POST	329	9.30	30.5
<b>MK # 2</b>	COMBINATION POLE	99	25.90	85.0
<b>MK # 3</b>	LAMP POST IN PARKING LOT	0	25.50	83.7

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    RUSSPORT</p> <p><b>Ref Mon # 2</b>    BUTLER</p> <p><b>Ref Mon # 3</b>    AHTD LROC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran by crew S5103 from NGS mark P 290 on 04-16-03 in job 061097.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600023	<b>Date Monumented</b> 9/19/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 061097, 60536,012119
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	61,372.0810	
<b>Easting (M)</b>	365,503.1910	
<b>Elevation (M)*</b>	83.695	
<b>Northing (SFT)</b>	201,351.5691	
<b>Easting (SFT)</b>	1,199,155.0525	
<b>Elevation (SFT)*</b>	274.589	

  

<b>Convergence Angle</b>	0	13	10.5148881
<b>Scale Factor</b>	1.000009662		
<b>Elevation Adjust. Factor</b>	0.9999868657		
<b>Combined Adjust. Factor</b>	0.9999965276		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN, GO EAST ON HWY. 365 FOR 1.207 KM (0.75 MILES) TO AN OVERPASS CROSSING INTERSTATE 40. CONTINUE EAST ON HWY. 365 PASSING THROUGH A TRAFFIC SIGNAL LIGHT FOR 0.322 KM (0.20 MILES) TO A GRAVEL PARKING AREA ON THE RIGHT. TURN RIGHT INTO THE PARKING AREA AND FOLLOW THE RIGHT OF WAY FENCE ON THE EAST EDGE OF THE GRAVEL PARKING LOT IN A SOUTHERLY DIRECTION FOR ABOUT 60 METERS TO A PIPE BRACE POST IN THE FENCE AND THE STATION. THE STATION IS 1.0 METERS WEST OF THE FENCE LINE AND 0.75 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600023" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	POWER POLE		10	36.70	120.4	
MK # 2	POWER POLE		170	9.00	29.5	
MK # 3	SOUTHWEST CORNER OF PARKING LOT		93	26.55	87.1	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    RUSSPORT</p> <p>Ref Mon # 2    BUTLER</p> <p>Ref Mon # 3    AHTD LROC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 Wire Levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600023A RESET	<b>Date Monumented</b> 4/7/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 061097, 60536,012119
---------------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	61,127.9640	
<b>Easting (M)</b>	365,339.9090	
<b>Elevation (M)*</b>	83.062	
<b>Northing (SFT)</b>	200,550.6619	
<b>Easting (SFT)</b>	1,198,619.3514	
<b>Elevation (SFT)*</b>	272.513	

  

<b>Convergence Angle</b>	0	13	14.2350146
<b>Scale Factor</b>	1.000010128		
<b>Elevation Adjust. Factor</b>	0.9999869650		
<b>Combined Adjust. Factor</b>	0.9999970929		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 365 AND 100 WEST O MORGAN, GO EAST ON HWY 365 FOR 0.65 MILES TO THE JCT. WITH "LONG FISHER ROAD" ON THE RIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.3 METERS NORTH OF THE CENTERLINE OF THE ROAD AND 3.0 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600023AA RESET 2003" ON TOPOF A 1.22 METR IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	184	18.30	60.0
MK # 2	12" GUM TREE	147	29.30	96.1
MK # 3	CABLE ANCHOR POST	175	19.40	63.6

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    RUSSPORT</p> <p>Ref Mon # 2    BUTLER</p> <p>Ref Mon # 3    AHTD LROC</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600024	<b>Date Monumented</b> 10/6/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> R60138
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	49,444.1310	
<b>Easting (M)</b>	381,338.8720	
<b>Elevation (M)*</b>	83.153	
<b>Northing (SFT)</b>	162,217.9531	
<b>Easting (SFT)</b>	1,251,109.2826	
<b>Elevation (SFT)*</b>	272.811	

  

<b>Convergence Angle</b>	0	7	7.0663865
<b>Scale Factor</b>	1.000033968		
<b>Elevation Adjust. Factor</b>	0.9999869508		
<b>Combined Adjust. Factor</b>	1.0000209183		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON INTERSTATE 40 IN THE MEDIAN AT THE WEST END OF THE I-40 OVERPASS CROSSING HWY. 161 AT PROTHO JUNCTION IN THE EASTERN PART OF NORTH LITTLE ROCK. FROM THE JCT. OF I-40 AND HWY. 67-167, GO EAST ON I-40 FOR 3.0 KM (1.87 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.40 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES, 13.0 METERS SOUTH OF THE SOUTHEAST CONCRETE WINGWALL OF THE WESTBOUND BRIDGE AND 2.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600024" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	"X" CUT IN BACKWALL FOOTING	125	4.88	16.0		
MK # 2	"X" CUT IN WING WALL	230	3.70	12.1		
MK # 3	"X" CUT IN BACKWALL FOOTING	332	15.67	51.4		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="ADAMS 2"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ROCKPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="NONE"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600024A	<b>Date Monumented</b> 10/6/1994	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> R60138
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	49,516.6619	
<b>Easting (M)</b>	380,793.5630	
<b>Elevation (M)*</b>	84.780	
<b>Northing (SFT)</b>	162,455.9149	
<b>Easting (SFT)</b>	1,249,320.2146	
<b>Elevation (SFT)*</b>	278.149	

  

<b>Convergence Angle</b>	0	7	19.5494732
<b>Scale Factor</b>	1.000033811		
<b>Elevation Adjust. Factor</b>	0.9999866954		
<b>Combined Adjust. Factor</b>	1.0000205060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	"X" CUT IN END OF WINGWALL	77	8.36	27.4
<b>MK # 2</b>	"X" CUT IN BACKWALL FOOTING	3	2.05	6.7
<b>MK # 3</b>	"X" CUT IIN BACKWALL FOOTING	227	13.75	45.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	
<b>Ref Mon # 2</b> ROCKPORT	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 46 46.1019036
<b>Longitude</b>	92 12 35.3705652
<b>Ellipsoid Height (M):</b>	57.221
<b>Geoid Height (M):</b>	-27.559

Location Description
<p>FROM THE JCT. OF I-40 AND HWY. 67-167 IN NORTH LITTLE ROCK, GO EAST ON I-40 FOR 2.46 KM (1.53 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS ON THE EAST END OF THE BRIDGE OVER THE MISSOURI PACIFIC RAILROAD, 4.40 METERS SOUTH OF THE SOUTH EDGE OF THE WESTBOUND LANES, 14.00 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES AND 1.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/" ALUMINUM CAP STAMPED "600024A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600025	<b>Date Monumented</b> 9/21/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> 61117,060979,R60080,R6013
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 49,404.1120		<b>Latitude</b> 34 46 42.3350184
<b>Easting (M)</b> 379,201.3840		<b>Longitude</b> 92 13 37.9789932
<b>Elevation (M)*</b> 87.563		<b>Ellipsoid Height (M):</b> 61.019
<b>Northing (SFT)</b> 162,086.6575		<b>Geoid Height (M):</b> -26.627
<b>Easting (SFT)</b> 1,244,096.5407		
<b>Elevation (SFT)*</b> 287.280		

  

<b>Convergence Angle</b>	0	7	55.9812629
<b>Scale Factor</b>	1.000034066		
<b>Elevation Adjust. Factor</b>	0.9999862587		
<b>Combined Adjust. Factor</b>	1.0000203242		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	0.15 METER ELM	88	18.16	59.6
<b>MK # 2</b>	0.30 METER PINE	105	37.74	123.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	
<b>Ref Mon # 2</b> ROCKPORT	
<b>Ref Mon # 3</b> SEARPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600025A	<b>Date Monumented</b> 9/21/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 67-16	<b>Job Number:</b> 61117,060979,R60080,R6013
---------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 49,779.0190		<b>Latitude</b> 34 46 54.4762920
<b>Easting (M)</b> 378,878.2760		<b>Longitude</b> 92 13 50.7208656
<b>Elevation (M)*</b> 98.878		<b>Ellipsoid Height (M):</b> 72.324
		<b>Geoid Height (M):</b> -26.636

  

<b>Northing (SFT)</b> 163,316.6648		<b>Location Description</b>
<b>Easting (SFT)</b> 1,243,036.4772		<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND U.S. HIGHWAY 67-167, IN NORTH LITTLE ROCK, GO NORTH ON U.S. HIGHWAY 67-167 FOR 0.836 KM (0.52 MI) TO THE ON THE LEFT IN AN OLD BORROW AREA BETWEEN THE NORTH AND SOUTH BOUND LANES. THE STATION IS 42.18 METERS WEST OF U.S. HIGHWAY 67-167 NORTHBOUND LANES AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600025A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 324.402		
<b>Convergence Angle</b> 0 8 3.3957473		
<b>Scale Factor</b> 1.000033247		
<b>Elevation Adjust. Factor</b> 0.9999844831		
<b>Combined Adjust. Factor</b> 1.0000177295		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				<b>AZ Mark Station</b> 600025
MK # 2					<b>Geodetic Azimuth</b> 139 06 35.43080
MK # 3					<b>Grid Azimuth</b> 139 14 38.75352

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> SEARPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600026A	<b>Date Monumented</b> 9/28/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060761,061261,061383
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	61,182.1856
<b>Easting (M)</b>	390,195.6472
<b>Elevation (M)*</b>	83.051
<b>Northing (SFT)</b>	200,728.5539
<b>Easting (SFT)</b>	1,280,166.8859
<b>Elevation (SFT)*</b>	272.476

  

<b>Convergence Angle</b>	0	3	44.6688443
<b>Scale Factor</b>	1.000009908		
<b>Elevation Adjust. Factor</b>	0.9999869668		
<b>Combined Adjust. Factor</b>	0.9999968747		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	53	5.1572148
<b>Longitude</b>	92	6	26.0778168
<b>Ellipsoid Height:</b>	55.343		
<b>Grid Northing (Meters)</b>	61,182.7470		
<b>Grid Easting (Meters)</b>	390,196.1060		

  

Location Description				
<p>FROM THE JCT. OF NORTH FIRST STREET, T.P. WHITE DRIVE AND VANDENBERG BLVD. IN JACKSONVILLE, GO SOUTH ON NORTH FIRST STREET FOR 0.241 KM (0.15 MILES) TO THE JCT. WITH J.P. WRIGHT LOOP ROAD AND THE STATION ON THE LEFT. THE STATION IS 12.60 METERS EAST OF THE CENTER OF NORTH FIRST STREET, 20.0 METERS NORTH OF THE CENTER OF J.P. WRIGHT LOOP ROAD AND 0.8 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600026A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. *****ELEV BY 3-WIRE USING TBM-1(AHTD JOB 060761). TBM-1 SET FROM TBM-6 (AHTD JOB 060590). TBM-6 SET FROM AHTD BM #600052 HWY. 67, SEC 10, LM 10.8 AND IS A DISK IN SE CRN OF DILT OF N 1ST ST APPRX. 170 FT RT OF HWY 67-167. ELEV= 84.997 M(278.86 FT) NGVD2.*****Old Elev 83.1080 Meters*****</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE	20	10.80	35.4
<b>MK # 2</b>	McDonald's Sign	115	7.70	25.3
<b>MK # 3</b>	Combination Pole	155	18.00	59.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR	<p>PREVIOUS ELEV. (83.062 m) BY 3 wire levels reran by crew S5113 on Job R60081 in March of 05 from NGS RV 159. Updated elevation by digital levels by S5111 in June of 2011 from 1st Order NGS BM RV 152 to 1st Order NGS BM RV 135 UNDER P.E. JOB #061261.</p>
<b>Ref Mon # 2</b> 430017A, 430014, 430014A	
<b>Ref Mon # 3</b> 430016, 430016A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600027	<b>Date Monumented</b> 10/5/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N\A	<b>Job Number:</b> 6905_3,061381
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	631,186.5041	
<b>Easting (M)</b>	369,902.9383	
<b>Elevation (M)*</b>	117.918	
<b>Northing (SFT)</b>	2,070,817.7222	
<b>Easting (SFT)</b>	1,213,589.8901	
<b>Elevation (SFT)*</b>	386.869	

  

<b>Convergence Angle</b>	0	11	2.2938082
<b>Scale Factor</b>	0.999996454		
<b>Elevation Adjust. Factor</b>	0.9999814952		
<b>Combined Adjust. Factor</b>	0.9999779492		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	45	2.0658672
<b>Longitude</b>	92	19	43.3068636
<b>Ellipsoid Height:</b>	90.352		
<b>Grid Northing (Meters)</b>	631,186.9325		
<b>Grid Easting (Meters)</b>	369,903.3021		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	13" (0.33 M) PIN OAK TREE	123	26.05	85.5
<b>MK # 2</b>	9" (0.24 M) PIN OAK TREE	175	12.90	42.3
<b>MK # 3</b>	8" (0.21 M) PIN OAK TREE	266	26.20	86.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2 1970	War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932. NOTE: 10/31/2001 POSSIBLY UNDER NEW PARKING LOT. NOT FOUND
<b>Ref Mon # 2</b> ROCKPORT 1990	
<b>Ref Mon # 3</b> PAGIS 1006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600027A	<b>Date Monumented</b> 10/5/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N\A	<b>Job Number:</b> 6905_3,061381
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,974.9708	
<b>Easting (M)</b>	369,850.9040	
<b>Elevation (M)*</b>	123.691	
<b>Northing (SFT)</b>	2,070,123.7167	
<b>Easting (SFT)</b>	1,213,419.1742	
<b>Elevation (SFT)*</b>	405.810	

  

<b>Convergence Angle</b>	0	11	3.4238572
<b>Scale Factor</b>	0.999996039		
<b>Elevation Adjust. Factor</b>	0.9999805892		
<b>Combined Adjust. Factor</b>	0.9999766283		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	55.1957964
<b>Longitude</b>	92	19	45.3260568
<b>Ellipsoid Height:</b>	96.129		
<b>Grid Northing (Meters)</b>	630,975.3944		
<b>Grid Easting (Meters)</b>	369,851.2644		

  

Location Description				
<p>FROM THE JCT. OF I-630 AND FAIR PARK BLVD. IN LITTLE ROCK, GO NORTH ON FAIR PARK BLVD. FOR 1.046 KM (0.65 MILES) TO THE JCT. WITH MARKHAM STREET, TURN RIGHT AND GO EAST ON MARKHAM STREET FOR 0.322 KMLES (0.20 MILES) TO THE JCT. WITH MONROE STREET, TURN RIGHT AND GO SOUTH ON MONROE STREET FOR 0.322 KM (0.20 MILES) TO THE ENTRANCE OF THE WAR MEMORIAL FITNESS CENTER ON THE RIGHT, TURN RIGHT AND FOLLOW THE NORTHERN MOST DRIVE IN A WESTERLY DIRECTION FOR 0.161 KM (0.10 MILES) TO THE STATION ON THE LEFT IN THE SOUTH EDGE OF THE PAVEMENT. THE STATION IS 16.99 METERS SOUTH OF A 0.65mm POST OAK TREE, 6.75 METERS SOUTH OF THE NORTH EDGE OF A CURB AND 0.64 METERS NORTH OF THE SOUTH EDGE OF A CURB AND A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600027A 1995" SET ON TOP OF A 3/4" REBAR 0.610 METERS IN LENGTH THAT IS ENCASED IN CONCRETE AND FLUSH WITH THE SURFACE OF THE PAVEMENT.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	296	21.60	70.9	
MK # 2	MANHOLE	50	10.40	34.1	
MK # 3	MANHOLE	111	5.90	19.4	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ADAMS 2 1970 <b>Ref Mon # 2</b> ROCKPORT 1990 <b>Ref Mon # 3</b> PAGIS 1006	War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600028	<b>Date Monumented</b> 12/20/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 67	<b>Job Number:</b> 6905_4
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	44,094.6490		
<b>Easting (M)</b>	374,595.7960		
<b>Elevation (M)*</b>	106.700		
<b>Northing (SFT)</b>	144,667.1943		
<b>Easting (SFT)</b>	1,228,986.3740		
<b>Elevation (SFT)*</b>	350.065		

  

<b>Convergence Angle</b>	0	9	41.0384480
<b>Scale Factor</b>	1.000046074		
<b>Elevation Adjust. Factor</b>	0.9999832556		
<b>Combined Adjust. Factor</b>	1.0000293288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CENTER OF THE BROADWAY ST. BRIDGE OVER I-630 IN LITTLE ROCK GO SOUTH ON BROADWAY FOR 0.97 KM. (0.60 MI.) TO THE JUNCTION WITH WEST 19th. STREET, TURN LEFT AND GO EAST ON WEST 19th. STREET FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH SOUTH SPRING STREET AND THE STATION ON THE RIGHT. 11.40 METERS SOUTH OF WEST 19th. STREET, 6.35 METERS WEST OF THE CENTER OF SOUTH SPRING STREET, 0.72 METERS WEST OF THE BACK OF THE CONCRETE CURB AND 0.72 METERS EAST OF THE EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600028" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	CORNER POST	303	3.70	12.1		
MK # 2	MANHOLE	6	2.25	7.4		
MK # 3	MANHOLE	82	8.00	26.2		

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ROCKPORT	<p>ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".</p>
Ref Mon # 2	ADAMS 2	
Ref Mon # 3	93600019	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600029	<b>Date Monumented</b> 12/20/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 67	<b>Job Number:</b> 6905_4
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	44,264.9700	
<b>Easting (M)</b>	374,620.1560	
<b>Elevation (M)*</b>	108.703	
<b>Northing (SFT)</b>	145,225.9891	
<b>Easting (SFT)</b>	1,229,066.2951	
<b>Elevation (SFT)*</b>	356.636	

  

<b>Convergence Angle</b>	0	9	40.4922591
<b>Scale Factor</b>	1.000045679		
<b>Elevation Adjust. Factor</b>	0.9999829412		
<b>Combined Adjust. Factor</b>	1.0000286195		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	183	15.60	51.2
<b>MK # 2</b>	LIGHT POLE	263	12.85	42.2
<b>MK # 3</b>	MANHOLE	334	14.20	46.6

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>93600019</td> </tr> </table>	Ref Mon # 1	ROCKPORT	Ref Mon # 2	ADAMS 2	Ref Mon # 3	93600019	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".
Ref Mon # 1	ROCKPORT								
Ref Mon # 2	ADAMS 2								
Ref Mon # 3	93600019								
Comments									
ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".									

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 43 55.1906040
<b>Longitude</b>	92 16 37.5822804
<b>Ellipsoid Height (M):</b>	81.220
<b>Geoid Height (M):</b>	-27.483

  

Location Description
TO REACH THE STATION FROM THE CENTER OF THE BROADWAY ST. BRIDGE OVER I-630 IN LITTLE ROCK GO SOUTH ON BROADWAY FOR 0.80 KM. (0.50 MI.) TO THE JUNCTION WITH WEST 18th. STREET, TURN LEFT AND GO EAST ON WEST 18th STREET FOR 0.08 KM (0.05 MI.) TO THE JUNCTION WITH SOUTH SPRING STREET AND THE STATION ON THE LEFT, 9.20 METERS NORTH OF THE CENTER OF WEST 18th STREET, 6.20 METERS EAST OF THE CENTER OF SOUTH SPRING STREET AND 0.75 METERS WEST OF THE WEST EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600029" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600030	<b>Date Monumented</b> 12/20/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 67	<b>Job Number:</b> 6905_4
--------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	44,107.7519	
<b>Easting (M)</b>	374,706.2150	
<b>Elevation (M)*</b>	104.533	
<b>Northing (SFT)</b>	144,710.1827	
<b>Easting (SFT)</b>	1,229,348.6404	
<b>Elevation (SFT)*</b>	342.955	

  

<b>Convergence Angle</b>	0	9	38.5138261
<b>Scale Factor</b>	1.000046043		
<b>Elevation Adjust. Factor</b>	0.9999835956		
<b>Combined Adjust. Factor</b>	1.0000296379		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SEWER MANHOLE	155	19.74	64.8
<b>MK # 2</b>	AP&L UTILITIES BOX	79	12.35	40.5
<b>MK # 3</b>	METAL LIGHT POLE WITH 3 CAMERAS	236	7.05	23.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ROCKPORT"/> <b>Ref Mon # 2</b> <input type="text" value="ADAMS 2"/> <b>Ref Mon # 3</b> <input type="text" value="93600019"/>	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".   

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 43 50.0967840
<b>Longitude</b>	92 16 34.1823216
<b>Ellipsoid Height (M):</b>	77.054
<b>Geoid Height (M):</b>	-27.479

  

Location Description
<p>THE STATION IS LOCATED IN THE SOUTH LAWN AT THE GOVERNORS MANSION IN LITTLE ROCK. 36.50 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A PAVED PARKING AREA, 24.80 METERS EAST OF THE SOUTHEAST CORNER OF A CONCRETE SIDEWALK, 19.50 METERS NORTH OF THE NORTH EDGE OF A CONCRETE DRIVE AND 7.57 METERS NORTHWEST OF A SPRINKLER HEAD. THE STATION MARK IS A STANDARD CAP STAMPED "600030" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600030A	<b>Date Monumented</b> 12/20/1995	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 67	<b>Job Number:</b> 6905_4
---------------------------	--------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	44,190.5569	
<b>Easting (M)</b>	374,771.7540	
<b>Elevation (M)*</b>	104.701	
<b>Northing (SFT)</b>	144,981.8521	
<b>Easting (SFT)</b>	1,229,563.6629	
<b>Elevation (SFT)*</b>	343.507	

  

<b>Convergence Angle</b>	0	9	37.0201403
<b>Scale Factor</b>	1.000045850		
<b>Elevation Adjust. Factor</b>	0.9999835693		
<b>Combined Adjust. Factor</b>	1.0000294185		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	33	10.00	32.8
<b>MK # 2</b>	SPRINKLER HEAD	200	9.25	30.3
<b>MK # 3</b>	METAL POLE WITH 2 CAMERAS	346	15.13	49.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ROCKPORT"/> <b>Ref Mon # 2</b> <input type="text" value="ADAMS 2"/> <b>Ref Mon # 3</b> <input type="text" value="93600019"/>	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".    

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 43 52.7897316
<b>Longitude</b>	92 16 31.6154064
<b>Ellipsoid Height (M):</b>	77.221
<b>Geoid Height (M):</b>	-27.480

  

Location Description
<p>THE STATION IS LOCATED IN THE NORTHEAST LAWN AT THE GOVERNORS MANSION IN LITTLE ROCK. 20.50 METERS SOUTH OF A TWIN OAK, 20.15 METERS EAST OF THE NORTHEAST CORNER OF THE NORTHEAST WING OF THE MANSION, 18.30 METERS NORTH OF THE MOST NORTHERLY PINE TREE, 1.50 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 1.50 METERS SOUTEAST OF THE SOUTEAST EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600030A" SET ON TOP OF AN IRON ROD 0.914 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600031	<b>Date Monumented</b> 9/30/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-440	<b>Job Number:</b> 060799,BB0611
--------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	627,292.8492    0.0030
<b>Easting (M)</b>	379,405.4407    0.0020
<b>Elevation (M)*</b>	84.648

  

<b>Northing (SFT)</b>	2,058,043.2894	
<b>Easting (SFT)</b>	1,244,766.0167	
<b>Elevation (SFT)*</b>	277.717	

  

<b>Convergence Angle</b>	0   7	33.0013827
<b>Scale Factor</b>	0.999989035	
<b>Elevation Adjust. Factor</b>	0.9999867161	
<b>Combined Adjust. Factor</b>	0.9999757513	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	34   42   56.5468740
<b>Longitude</b>	92   13   29.3649096
<b>Ellipsoid Height:</b>	57.250
<b>Grid Northing (Meters)</b>	627,293.3300
<b>Grid Easting (Meters)</b>	379,405.7773

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 440 AND STATE HIGHWAY 365 (CONFEDERATE BLVD. ), LOCATED IN EASTERN LITTLE ROCK, GO EAST ON I-440 EAST FOR 2.57 KILOMETERS 1.60 MILES TO EXIT 3, TURN RIGHT ON EXIT 3 FOR 0.48 KILOMETERS 0.30 MILES TO THE JUNCTION OF BANKHEAD DRIVE AND THE STATION ON THE LEFT. 12.70 METERS SOUTHWEST OF THE CENTER OF BANKHEAD DRIVE, 18.70 METERS NORTH- NORTHWEST OF THE CENTER OF THE EXIT RAMP. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600031 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG SET FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	355	6.35	20.8
MK # 2	METAL POLE TO CAUTION LIGHT	148	22.70	74.5
MK # 3	WOODEN UTILITY POLE	212	10.00	32.8

  

<b>AZ Mark Station</b>	600031A
<b>Geodetic Azimuth</b>	75 39 35.29370
<b>Grid Azimuth</b>	75 47 26.1627

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARCM</p> <p><b>Ref Mon # 2</b>    MSB6</p> <p><b>Ref Mon # 3</b>    P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>**SUPERCEDED ELEVATION (84.664 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM.</p> <p>*****UPDATE D ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287    **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600031A	<b>Date Monumented</b> 9/30/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-440	<b>Job Number:</b> 060799,BB0611
---------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	627,396.7258 0.0030
<b>Easting (M)</b>	379,815.4832 0.0020
<b>Elevation (M)*</b>	84.690

  

<b>Northing (SFT)</b>	2,058,384.0912	
<b>Easting (SFT)</b>	1,246,111.2978	
<b>Elevation (SFT)*</b>	277.855	

  

<b>Convergence Angle</b>	0 7	23.9869640
<b>Scale Factor</b>	0.999989231	
<b>Elevation Adjust. Factor</b>	0.9999867095	
<b>Combined Adjust. Factor</b>	0.9999759407	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1986)
<b>Latitude</b>	34 42 59.9464620
<b>Longitude</b>	92 13 13.2586536
<b>Ellipsoid Height:</b>	57.299
<b>Grid Northing (Meters)</b>	627,397.1971
<b>Grid Easting (Meters)</b>	379,815.8245

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 440 WEST AND U.S. HIGHWAY 165, LOCATED EAST OF NORTH LITTLE ROCK, GO WESTERLY ON I-440 WEST FOR 5.87 KM 3.65 MILES TO EXIT 3 AND THE STATION ON THE RIGHT. 0.46 m NORTH OF METAL WITNESS POST, 1.67m NORTH OF THE NORTH EDGE OF CONCRETE EXIT RAMP. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600031A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND SET FLUSH WITH THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	172	0.73	2.4
MK # 2	PUNCH POINT IN GUARD RAIL POST	97	2.07	6.8
MK # 3	PUNCH POINT IN GUARD RAIL POST	95	3.91	12.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> MSB6 <b>Ref Mon # 3</b> P777	**SUPERCEDED ELEVATION (84.713 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM. *****UPDATE D ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600032	<b>Date Monumented</b> 10/21/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 386	<b>Job Number:</b> 6905_5
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	615,099.7099	
<b>Easting (M)</b>	382,202.2080	
<b>Elevation (M)*</b>	72.343	
<b>Northing (SFT)</b>	2,018,039.6316	
<b>Easting (SFT)</b>	1,253,941.7441	
<b>Elevation (SFT)*</b>	237.345	

  

<b>Convergence Angle</b>	0	6	30.9750006
<b>Scale Factor</b>	0.999968089		
<b>Elevation Adjust. Factor</b>	0.9999886472		
<b>Combined Adjust. Factor</b>	0.9999567365		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER FENCE POST R/R CROSS TIE	256	1.22	4.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>ADAMS 2</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>R 107</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>SALIPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	ADAMS 2	<b>Ref Mon # 2</b>	R 107	<b>Ref Mon # 3</b>	SALIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 78.600 METERS NAVD88 DATUM.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 78.600 METERS NAVD88 DATUM.
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	ADAMS 2										
<b>Ref Mon # 2</b>	R 107										
<b>Ref Mon # 3</b>	SALIPORT										
Comments											
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 78.600 METERS NAVD88 DATUM.											

  

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 386 AND STATE HIGHWAY 365, IN WRIGHTVILLE, GO EAST ON STATE HIGHWAY 386 FOR 2.01 KM. (1.25 MI.) TO THE JUNCTION OF A GRAVEL ROAD (ASHER ROAD) TURN LEFT ( NORTH) ON ASHER ROAD FOR 0.45 KM. (0.28 MI.) TO THE STATION ON THE LEFT. THE STATION IS 1.110 METERS EAST NORTHEAST OF A METAL WITNESS POST, 26.40 METERS WEST OF THE CENTER OF ASHER ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600032 1996" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

  

<b>AZ Mark Station</b>	600032A
<b>Geodetic Azimuth</b>	194 56 20.71341
<b>Grid Azimuth</b>	195 02 51.66993

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600032A	<b>Date Monumented</b> 10/21/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 386	<b>Job Number:</b> 6905_5
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	614,670.5969				
<b>Easting (M)</b>	382,086.8450				
<b>Elevation (M)*</b>	71.808				
<b>Northing (SFT)</b>	2,016,631.7833				
<b>Easting (SFT)</b>	1,253,563.2573				
<b>Elevation (SFT)*</b>	235.590				

  

<b>Convergence Angle</b>	0	6	33.4912614
<b>Scale Factor</b>	0.999967419		
<b>Elevation Adjust. Factor</b>	0.9999887311		
<b>Combined Adjust. Factor</b>	0.9999561505		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAIL ROAD TIE CORNER POST	325	1.46	4.8
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	85	18.95	62.2
<b>MK # 3</b>	WEST END OF AN R.C.P. (0.60m) DIA.	91	19.80	65.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 72.600 METERS NAVD88 DATUM.
<b>Ref Mon # 2</b> R 107	
<b>Ref Mon # 3</b> SALIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600033	<b>Date Monumented</b> 12/2/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 060816,061381
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,530.2269	
<b>Easting (M)</b>	368,886.4643	
<b>Elevation (M)*</b>	110.222	
<b>Northing (SFT)</b>	2,068,664.5861	
<b>Easting (SFT)</b>	1,210,255.0083	
<b>Elevation (SFT)*</b>	361.620	

  

<b>Convergence Angle</b>	0	11	24.6134914
<b>Scale Factor</b>	0.999995163		
<b>Elevation Adjust. Factor</b>	0.9999827029		
<b>Combined Adjust. Factor</b>	0.9999778660		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	40.6604940
<b>Longitude</b>	92	20	23.1818280
<b>Ellipsoid Height:</b>	82.661		
<b>Grid Northing (Meters)</b>	630,530.6320		
<b>Grid Easting (Meters)</b>	368,886.9208		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	66	7.61	25.0
MK # 2	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	345	1.63	5.3
MK # 3	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	279	4.23	13.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 PAGIS 1004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600034	<b>Date Monumented</b> 12/2/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 060816,061381,061510
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	630,495.7015
<b>Easting (M)</b>	371,557.2993
<b>Elevation (M)*</b>	106.383
<b>Northing (SFT)</b>	2,068,551.3140
<b>Easting (SFT)</b>	1,219,017.5728
<b>Elevation (SFT)*</b>	349.025

  

<b>Convergence Angle</b>	0	10	25.8432626
<b>Scale Factor</b>	0.999995112		
<b>Elevation Adjust. Factor</b>	0.9999833053		
<b>Combined Adjust. Factor</b>	0.9999784174		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	39.8158008
<b>Longitude</b>	92	18	38.1783276
<b>Ellipsoid Height:</b>	78.846		
<b>Grid Northing (Meters)</b>	630,496.1182		
<b>Grid Easting (Meters)</b>	371,557.7217		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	264	41.70	136.8
MK # 2	CENTER OF MANHOLE	100	35.35	116.0
MK # 3	GUY POLE	14	16.78	55.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ADAMS 2 Ref Mon # 2    ROCKPORT Ref Mon # 3    PAGIS 1004	<b>Comments</b> ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
--	---

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF THE BROADWAY STREET BRIDGE AND I-630 IN LITTLE ROCK GO WEST ON I-630 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 5.75 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE NORTH (WEST BOUND) LANE OF I-630 AND 0.96 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEIOD09
<b>Latitude</b>	34    44    39.8022360
<b>Longitude</b>	92    18    38.1948840
<b>Ellipsoid Height (M):</b>	79.727
<b>Geoid Height (M):</b>	-26.638

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600034A	<b>Date Monumented</b> 12/2/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 060816,061510
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	45,625.4429	
<b>Easting (M)</b>	371,028.1110	
<b>Elevation (M)*</b>	115.740	
<b>Northing (SFT)</b>	149,689.4739	
<b>Easting (SFT)</b>	1,217,281.3942	
<b>Elevation (SFT)*</b>	379.724	

  

<b>Convergence Angle</b>	0	11	2.7495960
<b>Scale Factor</b>	1.000042573		
<b>Elevation Adjust. Factor</b>	0.9999818369		
<b>Combined Adjust. Factor</b>	1.0000244092		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SIGNAL LIGHT POLE	261	15.05	49.4
<b>MK # 2</b>	FENCE CORNER POST	276	9.15	30.0
<b>MK # 3</b>	FENCE CORNER POST	284	16.50	54.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> PAGIS 1004	<b>Comments</b> ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
--	---

  

Location Description			
THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND PINE STREET INTERCHANGE IN LITTLE ROCK. 24.10 METERS EAST OF THE CENTER OF PINE STREET, 5.65 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE EIGHTH STREET ON RAMP TO I-630 AND 0.70 METERS SOUTH OF A WITNESS POST SET NEAR A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>AZ Mark Station</b>	600034	
<b>Geodetic Azimuth</b>	87 13 37.83539	
<b>Grid Azimuth</b>	87 24 40.46056	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600035	<b>Date Monumented</b> 12/2/1996	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060816,061381
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	629,955.5856	
<b>Easting (M)</b>	374,746.6659	
<b>Elevation (M)*</b>	92.833	
<b>Northing (SFT)</b>	2,066,779.2838	
<b>Easting (SFT)</b>	1,229,481.3530	
<b>Elevation (SFT)*</b>	304.570	

  

<b>Convergence Angle</b>	0	9	15.6338987
<b>Scale Factor</b>	0.999994081		
<b>Elevation Adjust. Factor</b>	0.9999854317		
<b>Combined Adjust. Factor</b>	0.9999795128		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	22.5845520
<b>Longitude</b>	92	16	32.7349344
<b>Ellipsoid Height:</b>	65.333		
<b>Grid Northing (Meters)</b>	629,955.9949		
<b>Grid Easting (Meters)</b>	374,747.0943		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	11	9.46	31.0
MK # 2	MANHOLE COVER	62	18.04	59.2
MK # 3	MANHOLE COVER	130	18.15	59.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> PAGIS 1004	<b>Comments</b>  ELEVATION BY 3-WIRE LEVELING USING AHTD BM DISK SET IN NW WINGWALL OF THE BROADWAY STREET BR. OVER I-630. ELEV = 96.983 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT USING VERTCON TO CONVERT FROM NGVD29 DATUM TO NAVD88 DATUM.
--	--

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEIOD09

**Latitude**    34    44    22.5712320

**Longitude**    92    16    32.7517320

**Ellipsoid Height (M):**    66.204   

**Geoid Height (M):**    -26.622

  

**Location Description**

TO REACH THE STATION FROM THE BROADWAY STREET BRIDGE OVER I-630 IN DOWNTOWN LITTLE ROCK GO NORTH ON BROADWAY FOR 0.16 KM. (0.10 MI.) TO THE JUNCTION WITH WEST 9th STREET, TURN RIGHT (EAST) ON 9th STREET AND GO 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH SPRING STREET, TURN RIGHT (SOUTH) ON SPRING STREET AND GO 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH 10th STREET AND THE STATION JUST SOUTHWEST OF THIS JUNCTION NEAR THE SIDEWALK. 22.25 METERS NORTH OF THE CENTER OF A PAVED STREET, 16.0 METERS SOUTH OF THE CENTER OF 10th STREET, 8.0 METERS WEST OF THE CENTER OF SPRING STREET AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600035 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600036	<b>Date Monumented</b> 6/16/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	58,792.5410	
<b>Easting (M)</b>	348,186.3410	
<b>Elevation (M)*</b>	97.754	
<b>Northing (SFT)</b>	192,888.5283	
<b>Easting (SFT)</b>	1,142,341.3538	
<b>Elevation (SFT)*</b>	320.715	

  

<b>Convergence Angle</b>	0	19	46.9933361
<b>Scale Factor</b>	1.000014809		
<b>Elevation Adjust. Factor</b>	0.9999846594		
<b>Combined Adjust. Factor</b>	0.9999994682		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 24.09 METERS NORTHWEST OF THE CENTER OF MAUELLE HARBOR ROAD, 11.677 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHWEST OF OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600036 1998" SET ON TOP OF AN IRON ROD 0.73 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	325	11.46	37.6
MK # 2	WARNING SIGN FOR A UNDER GROUND CA	95	9.31	30.5
MK # 3	0.50 METER RCP	140	15.87	52.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ROCKPORT</p> <p>Ref Mon # 2    SALIPORT</p> <p>Ref Mon # 3    PJTC CAMPUS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600036A	<b>Date Monumented</b> 6/16/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	59,170.9500	
<b>Easting (M)</b>	347,535.9890	
<b>Elevation (M)*</b>	98.848	
<b>Northing (SFT)</b>	194,130.0251	
<b>Easting (SFT)</b>	1,140,207.6572	
<b>Elevation (SFT)*</b>	324.304	

  

<b>Convergence Angle</b>	0	20	1.9423579
<b>Scale Factor</b>	1.000014075		
<b>Elevation Adjust. Factor</b>	0.9999844878		
<b>Combined Adjust. Factor</b>	0.9999985625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	5.19	17.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	600036
<b>Geodetic Azimuth</b>	119 51 33.31997
<b>Grid Azimuth</b>	120 11 35.13046

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600037	<b>Date Monumented</b> 6/16/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 60,154.3409		<b>Latitude</b> 34 52 25.9080744
<b>Easting (M)</b> 342,059.6560		<b>Longitude</b> 92 38 1.4022780
<b>Elevation (M)*</b> 91.629		<b>Ellipsoid Height (M):</b> 64.185
		<b>Geoid Height (M):</b> -27.444

  

<b>Northing (SFT)</b> 197,356.3668		
<b>Easting (SFT)</b> 1,122,240.7214		
<b>Elevation (SFT)*</b> 300.619		

  

<b>Convergence Angle</b> 0 22 7.5459963		
<b>Scale Factor</b> 1.000012227		
<b>Elevation Adjust. Factor</b> 0.9999856206		
<b>Combined Adjust. Factor</b> 0.9999978475		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>				
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.77 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600037 1988" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN A CONCRETE GUARD RAIL POST	342	1.02	3.3
MK # 2	CHISELED "X" IN THE EAST END OF A HEAVY WALL	140	6.15	20.2
MK # 3	GOVERNMENT BENCH MARK "TT 22 RWS"	205	7.83	25.7

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ROCKPORT Ref Mon # 2    SALIPORT Ref Mon # 3    PJTC CAMPUS	<b>Comments</b>  ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600038	<b>Date Monumented</b> 6/16/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	60,462.8640	
<b>Easting (M)</b>	332,726.7470	
<b>Elevation (M)*</b>	120.942	
<b>Northing (SFT)</b>	198,368.5796	
<b>Easting (SFT)</b>	1,091,621.0024	
<b>Elevation (SFT)*</b>	396.791	

  

<b>Convergence Angle</b>	0	25	41.4297364
<b>Scale Factor</b>	1.000011757		
<b>Elevation Adjust. Factor</b>	0.9999810206		
<b>Combined Adjust. Factor</b>	0.9999927774		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	255	53.25	174.7
<b>MK # 2</b>	POWER POLE	333	48.35	158.6
<b>MK # 3</b>	0.39 METER CYPRESS TREE	64	23.55	77.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ROCKPORT <b>Ref Mon # 2</b> SALIPORT <b>Ref Mon # 3</b> PJTC CAMPUS	<b>Comments</b> ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM TBM-902 ON JOB 001837 ELEVATION = 119.884 METERS NAVD88 DATUM.
--	--

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    34    52    33.8132244

**Longitude**    92    44    8.9638188

**Ellipsoid Height (M):**    93.317   

**Geoid Height (M):**    -27.625

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO WEST ON STATE HIGHWAY 10 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 55.85 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 34.95 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY, 8.65 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600038 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	PAGIS 2093
<b>Geodetic Azimuth</b>	249 21 55.29640
<b>Grid Azimuth</b>	249 47 36.78464

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600039A	<b>Date Monumented</b> 9/21/1998	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 176	<b>Job Number:</b> R60080
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	55,100.2929				
<b>Easting (M)</b>	383,429.9000				
<b>Elevation (M)*</b>	86.196				
<b>Northing (SFT)</b>	180,774.8776				
<b>Easting (SFT)</b>	1,257,969.5969				
<b>Elevation (SFT)*</b>	282.795				

  

<b>Convergence Angle</b>	0	6	19.4507279
<b>Scale Factor</b>	1.000021959		
<b>Elevation Adjust. Factor</b>	0.9999864732		
<b>Combined Adjust. Factor</b>	1.0000084319		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE GUARD RAIL POST	173	5.54	18.2
MK # 2	CONCRETE GUARD RAIL POST	187	1.82	6.0
MK # 3	CONCRETE GUARD RAIL POST	323	2.23	7.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> SEARPORT	<b>Comments</b>  3-wire levels ran by S5101 in Job R60080 in 1999-2000 as per Kenneth Scott Mar 2005 from NGS BM
--	--

  

Location Description			
THE STATION IS IN SHERWOOD, AT THE JUNCTION OF U.S. HIGHWAY 67-167 AND STATE HIGHWAY 176 (KIEHL AVENUE) AT THE SOUTH END OF THE OVERPASS. THE STATION IS 25.08 METERS SOUTH OF THE CENTER OF THE FRONTAGE ROAD, 5.464 METERS EAST OF THE CENTER OF STATE HIGHWAY 176 (KIEHL AVENUE) AND 0.77 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600039A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	49	47.4599208
<b>Longitude</b>	92	10	52.0902156
<b>Ellipsoid Height (M):</b>	59.750		
<b>Geoid Height (M):</b>	-26.770		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600040	<b>Date Monumented</b> 6/26/2000	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I40	<b>Job Number:</b> 060994
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	50,155.4187	
<b>Easting (M)</b>	388,194.9845	
<b>Elevation (M)*</b>	81.516	
<b>Northing (SFT)</b>	164,551.5695	
<b>Easting (SFT)</b>	1,273,603.0450	
<b>Elevation (SFT)*</b>	267.440	

  

<b>Convergence Angle</b>	0	4	30.1834276
<b>Scale Factor</b>	1.000032390		
<b>Elevation Adjust. Factor</b>	0.9999872077		
<b>Combined Adjust. Factor</b>	1.0000195972		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POS	80	1.17	3.8
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POS	146	4.16	13.6
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ROCKPORT"/> <b>Ref Mon # 2</b> <input type="text" value="PAGIS 2001"/> <b>Ref Mon # 3</b> <input type="text" value="R 107"/>	ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 34 47 7.2426732

**Longitude** 92 7 44.3131680

**Ellipsoid Height (M):** 54.736

**Geoid Height (M):** -26.637

  

**Location Description**

THE STATION IS LOCATED IN GALLOWAY AT THE JUNCTION OF I-40 AND DICK JETER ROAD (EXIT 161). THE STATION IS ABOUT 30 METERS NORTH OF THE CENTER OF THE WEST BOUND LANE OF I-40, 22.80 METERS NORTH OF THE NORTHWEST CORNER OF THE OVERPASS, 7.30 METERS WEST OF THE CENTER OF DICK JETER ROAD AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600040 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.498 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600040A	<b>Date Monumented</b> 6/26/2000	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I40	<b>Job Number:</b> 060994
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	49,981.4168				
<b>Easting (M)</b>	387,711.8469				
<b>Elevation (M)*</b>	74.873				
<b>Northing (SFT)</b>	163,980.6983				
<b>Easting (SFT)</b>	1,272,017.9510				
<b>Elevation (SFT)*</b>	245.645				

  

<b>Convergence Angle</b>	0	4	41.2356381
<b>Scale Factor</b>	1.000032770		
<b>Elevation Adjust. Factor</b>	0.9999882502		
<b>Combined Adjust. Factor</b>	1.0000210198		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHAIN LINK FENCE CORNER POST	247	7.25	23.8
<b>MK # 2</b>	WATER METER	101	4.70	15.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PAGIS 2001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>R 107</td> </tr> </table>	Ref Mon # 1	ROCKPORT	Ref Mon # 2	PAGIS 2001	Ref Mon # 3	R 107	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1
Ref Mon # 1	ROCKPORT								
Ref Mon # 2	PAGIS 2001								
Ref Mon # 3	R 107								
Comments									
ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1									

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF I-40 AND DICK JETER ROAD (EXIT 161), LOCATED IN GALLOWAY, GO SOUTH ON DICK JETER ROAD FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF MABELLINE ROAD ON THE RIGHT, GO RIGHT WEST ON MAYBELLINE ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.30 METERS SOUTH OF THE CENTER OF MAYBELLINE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600040A 2000" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.498 METERS.	

  

<b>AZ Mark Station</b>	600040
<b>Geodetic Azimuth</b>	70 06 55.51290
<b>Grid Azimuth</b>	70 11 36.64018

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600041	<b>Date Monumented</b> 3/5/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 905_11,061148,060657,06138
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	631,961.0829	
<b>Easting (M)</b>	364,223.8621	
<b>Elevation (M)*</b>	134.697	
<b>Northing (SFT)</b>	2,073,358.9861	
<b>Easting (SFT)</b>	1,194,957.7876	
<b>Elevation (SFT)*</b>	441.919	

  

<b>Convergence Angle</b>	0	13	7.3273263
<b>Scale Factor</b>	0.999997945		
<b>Elevation Adjust. Factor</b>	0.9999788621		
<b>Combined Adjust. Factor</b>	0.9999768071		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	44	5.20	17.1
<b>MK # 2</b>	SOUTHEAST CORNER OF BRIDGE	340	8.22	27.0
<b>MK # 3</b>	NORTH POST TO A SIGN	252	11.70	38.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ROCKPORT	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
<b>Ref Mon # 2</b> PAGIS 2074	
<b>Ref Mon # 3</b> AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600041A	<b>Date Monumented</b> 12/17/2012	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 630	<b>Job Number:</b> 061381
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	630,788.0238		
<b>Easting (M)</b>	364,000.2860		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,069,510.3748		
<b>Easting (SFT)</b>	1,194,224.2717		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	12.1483854
<b>Scale Factor</b>	0.999995632		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	44	48.2335080
<b>Longitude</b>	34	44	48.2335080
<b>Ellipsoid Height:</b>	99.254		
<b>Grid Northing (Meters)</b>	2,058,917.5866		
<b>Grid Easting (Meters)</b>	5,373,515.3908		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Flared End Section	301	5.33	17.5
<b>MK # 2</b>	NorthWest Pole of sign over I-430 off ramp	89	28.96	95.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> THIS POINT WAS RESET AND HAS NOT HAD LEVELS RAN TO IT. IT ONLY HAS A GPS DERIVED ELEV. OF 405.6439 U.S. FEET.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600042	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060987,061318
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	631,674.5114	
<b>Easting (M)</b>	375,930.5935	
<b>Elevation (M)*</b>	78.364	
<b>Northing (SFT)</b>	2,072,418.7928	
<b>Easting (SFT)</b>	1,233,365.6222	
<b>Elevation (SFT)*</b>	257.099	

  

<b>Convergence Angle</b>	0	8	49.6818930
<b>Scale Factor</b>	0.999997451		
<b>Elevation Adjust. Factor</b>	0.9999877023		
<b>Combined Adjust. Factor</b>	0.9999851533		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I 30 AND I 40 LOCATED IN NORTH LITTLE ROCK, GO SOUTHWEST ON I 30 FOR 1.931 KM (1.2 MI) TO EXIT 141 B (BROADWAY), TO THE RIGHT, CONTINUE ON DOWN THE RAMP TO CYPRESS STREET AND CONTINUE DOWN CYPRESS STREET 0.644 KM (0.4 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS WEST OF THE CENTER OF I 30 WEST BOUND ON RAMP, 6.80 METERS EAST OF THE CENTER OF CYPRESS STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600042 2001" SET OF TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.216 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	231	12.50	41.0	600042A
MK # 2					3 40 58
MK # 3					3 50 09

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ROCKPORT <b>Ref Mon # 2</b> AHTD LITTLE ROCK 1 <b>Ref Mon # 3</b> PAGIS 1001	ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600042A	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 30	<b>Job Number:</b> 060987
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	47,439.1449				
<b>Easting (M)</b>	375,970.5990				
<b>Elevation (M)*</b>	81.244				
<b>Northing (SFT)</b>	155,639.9279				
<b>Easting (SFT)</b>	1,233,496.8736				
<b>Elevation (SFT)*</b>	266.548				

  

<b>Convergence Angle</b>	0	9	9.7983554
<b>Scale Factor</b>	1.000038437		
<b>Elevation Adjust. Factor</b>	0.9999872503		
<b>Combined Adjust. Factor</b>	1.0000256868		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL GUARD RAIL POST WITH PUNCH MARK	113	8.05	26.4
MK # 2	METAL GUARD RAIL POST WITH PUNCH MARK	140	11.80	38.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ROCKPORT	ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM
Ref Mon # 2 AHTD LITTLE ROCK 1	
Ref Mon # 3 PAGIS 1001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600043	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 165	<b>Job Number:</b> 061117, 060987
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	46,467.0910				
<b>Easting (M)</b>	380,408.0940				
<b>Elevation (M)*</b>	78.489				
<b>Northing (SFT)</b>	152,450.7811				
<b>Easting (SFT)</b>	1,248,055.5551				
<b>Elevation (SFT)*</b>	257.509				

  

<b>Convergence Angle</b>	0	7	28.2194500
<b>Scale Factor</b>	1.000040602		
<b>Elevation Adjust. Factor</b>	0.9999876827		
<b>Combined Adjust. Factor</b>	1.0000282842		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 165 LOCATED IN ROSE CITY, GO EAST ON STATE HIGHWAY 165 FOR 0.644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 165, 12.80 METERS EAST OF THE CENTER OF PROTHRO STREET, 6.30 METERS SOUTH OF THE SOUTH RAIL, AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600043 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 638.278 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: ROCKPORT</p> <p>Ref Mon # 2: AHTD LITTLE ROCK 1</p> <p>Ref Mon # 3: PAGIS 1001</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600043A	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 165	<b>Job Number:</b> 061117, 060987
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	46,202.4899	
<b>Easting (M)</b>	380,988.9640	
<b>Elevation (M)*</b>	78.491	
<b>Northing (SFT)</b>	151,582.6689	
<b>Easting (SFT)</b>	1,249,961.2927	
<b>Elevation (SFT)*</b>	257.516	

  

<b>Convergence Angle</b>	0	7	14.9177051
<b>Scale Factor</b>	1.000041199		
<b>Elevation Adjust. Factor</b>	0.9999876824		
<b>Combined Adjust. Factor</b>	1.0000288808		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 165 LOCATED IN ROSE CITY, GO EAST ON STATE HIGHWAY 165 FOR 1.287 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.80 METERS EAST OF THE CENTER OF MILLS STREET, 10.90 METERS NORTH OF THE CENTER OF STATE HIGHWAY 165, 8.00 METERS SOUTH OF THE SOUTH RAIL, AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600043A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 638.278 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ROCKPORT</p> <p>Ref Mon # 2    AHTD LITTLE ROCK 1</p> <p>Ref Mon # 3    PAGIS 1001</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600044	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 061026
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	59,212.1530	
<b>Easting (M)</b>	390,035.5290	
<b>Elevation (M)*</b>	84.969	
<b>Northing (SFT)</b>	194,265.2053	
<b>Easting (SFT)</b>	1,279,641.5647	
<b>Elevation (SFT)*</b>	278.769	

  

<b>Convergence Angle</b>	0	3	48.2880206
<b>Scale Factor</b>	1.000013706		
<b>Elevation Adjust. Factor</b>	0.9999866658		
<b>Combined Adjust. Factor</b>	1.0000003716		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 161 AND STATE HIGHWAY 294 IN JACKSONVILLE, GO NORTH ON STATE HIGHWAY 161( SOUTH FIRST STREET) FOR 1.931 KM (1.2 MI) TO THE JUNCTION OF SHORT STREET TO THE RIGHT, GO RIGHT ON SHORT STREET FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 28.80 METERS SOUTHEAST OF THE CENTER OF EAST CENTER STREET, 14.70 METERS SOUTHEAST OF THE CENTER OF SHORT STREET, 9.35 METERS NORTHWEST OF THE NEAR RAIL, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600044 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS RUN BY CREW S5102 FROM USC &amp; GS BENCH MARK RV 154 PID # EJ 0040. THE SHOT DISTANCE IS 302.778 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE PIPE	51	21.90	71.9
<b>MK # 2</b>	LIGHT POLE	340	10.70	35.1
<b>MK # 3</b>	POWER POLE	232	20.70	67.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    430013</p> <p><b>Ref Mon # 2</b>    ROCKPORT</p> <p><b>Ref Mon # 3</b>    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600044A	<b>Date Monumented</b> 8/28/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 161	<b>Job Number:</b> 061026
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	58,998.7030	
<b>Easting (M)</b>	389,820.7870	
<b>Elevation (M)*</b>	85.749	
<b>Northing (SFT)</b>	193,564.9114	
<b>Easting (SFT)</b>	1,278,937.0320	
<b>Elevation (SFT)*</b>	281.328	

  

<b>Convergence Angle</b>	0	3	53.2022712
<b>Scale Factor</b>	1.000014124		
<b>Elevation Adjust. Factor</b>	0.9999865434		
<b>Combined Adjust. Factor</b>	1.0000006672		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	283	28.00	91.9
<b>MK # 2</b>	CORNER OF ROCK AND BLOCK BUILDING	325	29.15	95.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 430013	
<b>Ref Mon # 2</b> ROCKPORT	
<b>Ref Mon # 3</b> SEARPORT	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 51 54.2713284
<b>Longitude</b>	92 6 40.7606472
<b>Ellipsoid Height (M):</b>	58.890
<b>Geoid Height (M):</b>	-26.859

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 161 AND STATE HIGHWAY 294 IN JACKSONVILLE, GO NORTH ON STATE HIGHWAY 161(SOUTH FIRST STREET) FOR 1.786 KM (1.11 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS SOUTHEAST OF MULBERRY STREET, 18.30 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 161 (SO FIRST STREET), 13.90 METERS NORTHWEST OF THE NEAR RAIL, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600044A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVELS RUN BY CREW S5102 FROM USC &amp; GS BENCH MARK RV 154, PID # EJ 0040. THE SHOT DISTANCE IS 302.778 METERS.</p>

<b>AZ Mark Station</b>	600044
<b>Geodetic Azimuth</b>	45 06 29
<b>Grid Azimuth</b>	45 10 22

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600045	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 440	<b>Job Number:</b> 10, R60101,061261 061475,BE
--------------------------	--------------------------------------	------------------------------	--------------------------	-----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	55,773.6402	0.0020
<b>Easting (M)</b>	386,079.2353	0.0020
<b>Elevation (M)*</b>	80.876	

  

<b>Northing (SFT)</b>	182,984.0179	
<b>Easting (SFT)</b>	1,266,661.6245	
<b>Elevation (SFT)*</b>	265.342	

  

<b>Convergence Angle</b>	0	5	18.8056176
<b>Scale Factor</b>	1.000020573		
<b>Elevation Adjust. Factor</b>	0.9999873080		
<b>Combined Adjust. Factor</b>	1.0000078808		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	50	9.4561080
<b>Longitude</b>	92	9	7.8714576
<b>Ellipsoid Height:</b>	54.162		
<b>Grid Northing (Meters)</b>	55,773.6580		
<b>Grid Easting (Meters)</b>	386,079.2220		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD BENCH MARK CAP IN OVERPASS WA	9	2.61	8.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARWY <b>Ref Mon # 3</b> ARBT	3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.

  

<b>Location Description</b>
THIS STATION IS LOCATED AT THE NORTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE NORTH END OF BRIDGE NUMBER A6754. THE STATION IS 0.85 METERS WEST OF THE BRIDGE WALL AND 0.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045 2001" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

  

<b>AZ Mark Station</b>	600045A
<b>Geodetic Azimuth</b>	160 32 36
<b>Grid Azimuth</b>	160 37 54

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600045A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 440	<b>Job Number:</b> 060110, BB0620
---------------------------	--------------------------------------	------------------------------	--------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	55,209.6898    0.0020
<b>Easting (M)</b>	386,277.4831    0.0020
<b>Elevation (M)*</b>	79.278

  

<b>Northing (SFT)</b>	181,133.7906	
<b>Easting (SFT)</b>	1,267,312.0425	
<b>Elevation (SFT)*</b>	260.099	

  

<b>Convergence Angle</b>	0	5	14.2457862
<b>Scale Factor</b>	1.000021724		
<b>Elevation Adjust. Factor</b>	0.9999875588		
<b>Combined Adjust. Factor</b>	1.0000092825		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	34    49    51.1621860
<b>Longitude</b>	92    9    0.0338292
<b>Ellipsoid Height:</b>	52.547
<b>Grid Northing (Meters)</b>	55,209.5960
<b>Grid Easting (Meters)</b>	386,277.5080

  

**Location Description**

THIS STATION IS LOCATED AT THE SOUTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE SOUTH END OF THE SOUTH BOUND TRAFFIC LANES. THE STATION IS 0.61 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EAST END OF RAILROAD OVERPAS	126	2.95	9.7
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	600045
<b>Geodetic Azimuth</b>	340 32 40
<b>Grid Azimuth</b>	340 37 54

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARWY</p> <p><b>Ref Mon # 3</b>    ARBT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600046	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110, R60101
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	58,919.9510	
<b>Easting (M)</b>	381,830.8360	
<b>Elevation (M)*</b>	76.238	
<b>Northing (SFT)</b>	193,306.5392	
<b>Easting (SFT)</b>	1,252,723.3344	
<b>Elevation (SFT)*</b>	250.123	

  

<b>Convergence Angle</b>	0	6	56.2452720
<b>Scale Factor</b>	1.000014303		
<b>Elevation Adjust. Factor</b>	0.9999880360		
<b>Combined Adjust. Factor</b>	1.0000023388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 0.869 KM (.54 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 6.00 METERS WEST OF THE WEST EDGE OF THE SOUTH BOUND LANE OF STATE HIGHWAY 107, AND 1.20 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL	76	2.34	7.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ROCKPORT	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600046A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110, R60101
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	58,246.3700	
<b>Easting (M)</b>	381,618.6690	
<b>Elevation (M)*</b>	84.815	
<b>Northing (SFT)</b>	191,096.6322	
<b>Easting (SFT)</b>	1,252,027.2499	
<b>Elevation (SFT)*</b>	278.265	

  

<b>Convergence Angle</b>	0	7	1.0743821
<b>Scale Factor</b>	1.000015629		
<b>Elevation Adjust. Factor</b>	0.9999866899		
<b>Combined Adjust. Factor</b>	1.0000023187		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 1.577 KM (.98 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 107 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046A 2001" SET ON TOP OF AN IRON ROD 0.72 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ROCKPORT</p> <p><b>Ref Mon # 2</b>    SEARPORT</p> <p><b>Ref Mon # 3</b>    AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran by crew S5104, S5108, &amp; S5113 from NGS Marks J 290 &amp; K 290 (430-40 interchange on railroad track) to G10 &amp; RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600047	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110,061738
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	60,667.3731	0.0030	
<b>Easting (M)</b>	383,203.8173	0.0020	
<b>Elevation (M)*</b>	80.913		
<b>Northing (SFT)</b>	199,039.5399		
<b>Easting (SFT)</b>	1,257,227.8573		
<b>Elevation (SFT)*</b>	265.462		

  

<b>Convergence Angle</b>	0	6	24.8658183
<b>Scale Factor</b>	1.000010911		
<b>Elevation Adjust. Factor</b>	0.9999873023		
<b>Combined Adjust. Factor</b>	0.9999982132		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	52	48.0978480
<b>Longitude</b>	92	11	1.3969464
<b>Ellipsoid Height:</b>	54.020		
<b>Grid Northing (Meters)</b>	60,667.3670		
<b>Grid Easting (Meters)</b>	383,203.7960		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF GUARD RAIL	319	1.50	4.9
<b>MK # 2</b>	PUNCH MARK IN METAL GUARD RAIL POS	67	15.30	50.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ROCKPORT	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
<b>Ref Mon # 2</b> SEARPORT	
<b>Ref Mon # 3</b> AHTD LITTLE ROCK	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	34    52    48.0980460
<b>Longitude</b>	92    11    1.3961076
<b>Ellipsoid Height (M):</b>	53.898    0.0110
<b>Geoid Height (M):</b>	-27.029

Location Description
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 1.770 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 107 AND 0.70 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 563.956 METERS.</p>

<b>AZ Mark Station</b>	600047A
<b>Geodetic Azimuth</b>	71 55 57
<b>Grid Azimuth</b>	72 02 22

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600047A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 107	<b>Job Number:</b> 060110,061738
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	60,841.2693    0.0030
<b>Easting (M)</b>	383,740.2942    0.0020
<b>Elevation (M)*</b>	101.700

  

<b>Northing (SFT)</b>	199,610.0644	
<b>Easting (SFT)</b>	1,258,987.9486	
<b>Elevation (SFT)*</b>	333.661	

  

<b>Convergence Angle</b>	0	6	12.5802726
<b>Scale Factor</b>	1.000010576		
<b>Elevation Adjust. Factor</b>	0.9999840402		
<b>Combined Adjust. Factor</b>	0.9999946160		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	52	53.7729708
<b>Longitude</b>	92	10	40.2843756
<b>Ellipsoid Height:</b>	74.774		
<b>Grid Northing (Meters)</b>	60,841.2700		
<b>Grid Easting (Meters)</b>	383,740.2660		

  

**Location Description**

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 107 AND 0.69 METERS NORTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047A 2001" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE, THE CAP WAS BENT WHEN DRIVEN, ON THIS STATION. THE SHOT DISTANCE IS 563.956 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	600047
<b>Geodetic Azimuth</b>	251 56 09
<b>Grid Azimuth</b>	252 02 22

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ROCKPORT	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
Ref Mon # 2    SEARPORT	
Ref Mon # 3    AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600048	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 10, 061190, R60101,012119,06
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	54,296.6699	
<b>Easting (M)</b>	370,494.4119	
<b>Elevation (M)*</b>	90.994	
<b>Northing (SFT)</b>	178,138.3245	
<b>Easting (SFT)</b>	1,215,530.4164	
<b>Elevation (SFT)*</b>	298.535	

  

<b>Convergence Angle</b>	0	11	15.6079141
<b>Scale Factor</b>	1.000023685		
<b>Elevation Adjust. Factor</b>	0.9999857203		
<b>Combined Adjust. Factor</b>	1.0000094050		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	49	20.3089260
<b>Longitude</b>	92	19	21.0406296
<b>Ellipsoid Height:</b>	13.000		
<b>Grid Northing (Meters)</b>	54,296.6709		
<b>Grid Easting (Meters)</b>	370,494.3850		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 176 AND STATE HIGHWAY 365 LOCATED ON THE NORTH SIDE OF NORTH LITTLE ROCK, GO NORTH ON STATE HIGHWAY 365 FOR 5.794 KM (3.6 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF A GRAVEL DRIVE, 8.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 365, AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600048 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 566.077 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH EAST CORNER RED METAL BUILDING	284	20.60	67.6	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ROCKPORT</p> <p><b>Ref Mon # 2</b>    SEARPORT</p> <p><b>Ref Mon # 3</b>    AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran by crew S5104 from NGS marks J 290 &amp; K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, &amp; S5103 from NGS points K290 &amp; J290 to G10 &amp; RV159.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600048A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 10,061190,R60101,012119,06
---------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	54,674.5848
<b>Easting (M)</b>	370,072.9372
<b>Elevation (M)*</b>	95.003
<b>Northing (SFT)</b>	179,378.2003
<b>Easting (SFT)</b>	1,214,147.6281
<b>Elevation (SFT)*</b>	311.689

  

<b>Convergence Angle</b>	0 11 25.2873613
<b>Scale Factor</b>	1.000022906
<b>Elevation Adjust. Factor</b>	0.9999850912
<b>Combined Adjust. Factor</b>	1.0000079968

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	49	32.5266924
<b>Longitude</b>	92	19	37.6747608
<b>Ellipsoid Height:</b>	68.206		
<b>Grid Northing (Meters)</b>	54,674.5740		
<b>Grid Easting (Meters)</b>	370,072.9130		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 176 AND STATE HIGHWAY 365 LOCATED ON THE NORTH SIDE OF NORTH LITTLE ROCK, GO NORTH ON STATE HIGHWAY 365 FOR 6.276 KM (3.9 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 365 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600048A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 566.077 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	141	22.00	72.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ROCKPORT</p> <p><b>Ref Mon # 2</b>    SEARPORT</p> <p><b>Ref Mon # 3</b>    AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran by crew S5104 from NGS marks J 290 &amp; K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, &amp; S5103 from NGS points K290 &amp; J290 to G10 &amp; RV159.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600049	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 40	<b>Job Number:</b> 060110, 8640_5,012119
--------------------------	--------------------------------------	------------------------------	--------------------------	----------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	65,579.6170	
<b>Easting (M)</b>	362,764.1500	
<b>Elevation (M)*</b>	84.187	
<b>Northing (SFT)</b>	215,155.7934	
<b>Easting (SFT)</b>	1,190,168.7155	
<b>Elevation (SFT)*</b>	276.204	

  

<b>Convergence Angle</b>	0	14	13.6800012
<b>Scale Factor</b>	1.000001901		
<b>Elevation Adjust. Factor</b>	0.9999867885		
<b>Combined Adjust. Factor</b>	0.9999886894		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE PULASKI/FAULKNER COUNTY LINE ON I 40 GO EAST ON I 40 FOR 0.966 KM (0.6 MI) TO THE STATION. THE STATION IS ACROSS THE I 40 LANES BEHIND THE GUARD RAIL ON THE WEST BOUND LANE SIDE. THE STATION IS 7.10 METERS EAST OF THE WEST BOUND LANE EDGE OF PAVEMENT, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600049 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.861 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF GUARD RAIL	235	2.50	8.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	331	13.55	44.5
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ROCKPORT</p> <p><b>Ref Mon # 2</b>    SEARPORT</p> <p><b>Ref Mon # 3</b>    AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600049A	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 40	<b>Job Number:</b> 060110,8640_5,012119
---------------------------	--------------------------------------	------------------------------	--------------------------	----------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	64,990.3890	
<b>Easting (M)</b>	362,865.3800	
<b>Elevation (M)*</b>	83.620	
<b>Northing (SFT)</b>	213,222.6346	
<b>Easting (SFT)</b>	1,190,500.8342	
<b>Elevation (SFT)*</b>	274.343	

  

<b>Convergence Angle</b>	0	14	11.3034444
<b>Scale Factor</b>	1.000002964		
<b>Elevation Adjust. Factor</b>	0.9999868775		
<b>Combined Adjust. Factor</b>	0.9999898414		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE PULASKI/FAULKNER COUNTY LINE ON I 40, GO EAST ON I 40 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS WEST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANE, 6.75 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 EAST BOUND LANE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600049A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.861 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ROCKPORT</p> <p>Ref Mon # 2    SEARPORT</p> <p>Ref Mon # 3    AHTD LITTLE ROCK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600050	<b>Date Monumented</b> 12/19/2001	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 060110, R60101,061303
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	56,358.1370	
<b>Easting (M)</b>	376,401.3680	
<b>Elevation (M)*</b>	172.418	
<b>Northing (SFT)</b>	184,901.6545	
<b>Easting (SFT)</b>	1,234,910.1548	
<b>Elevation (SFT)*</b>	565.674	

  

<b>Convergence Angle</b>	0	9	0.4770248
<b>Scale Factor</b>	1.000019428		
<b>Elevation Adjust. Factor</b>	0.9999729428		
<b>Combined Adjust. Factor</b>	0.9999923702		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	170	7.83	25.7
MK # 2	MAN HOLE COVER	135	2.20	7.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600051 Reset	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-30	<b>Job Number:</b> 60209,061202, 061390
--------------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	619,878.7448 0.0020
<b>Easting (M)</b>	361,761.3632 0.0020
<b>Elevation (M)*</b>	96.953 0.0015
<b>Northing (SFT)</b>	2,033,718.8486
<b>Easting (SFT)</b>	1,186,878.7391
<b>Elevation (SFT)*</b>	318.087

  

<b>Convergence Angle</b>	0 14 0.4356838
<b>Scale Factor</b>	0.999975761
<b>Elevation Adjust. Factor</b>	0.9999847851
<b>Combined Adjust. Factor</b>	0.9999605465

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34 38	54.1399272	
<b>Longitude</b>	92 25	1.6119156	
<b>Ellipsoid Height:</b>	70.825		
<b>Grid Northing (Meters)</b>	619,878.9296		
<b>Grid Easting (Meters)</b>	361,761.2492		

  

Location Description				
THE STATION IS LOCATED AT THE SOUTHWEST END OF THE VIMY RIDGE ROAD OVERPASS ON I-30 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 60051-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	5	7.10	23.3	
MK # 2	SOUTH END OF HEADWALL	315	1.85	6.1	
MK # 3	SOUTH END OF GUARDRAIL	100	3.60	11.8	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. ***** DO NOT USE, MONUMENT WAS DISPLACED BY A CONSTRUCTION CREW PLACING NEW DITCH PAVING AND RESET NEARBY. ***** ***** Reset in 06/2017 by crew s5113 during job 061390. Elevation based on digital levels from
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SALIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600051A	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-30	<b>Job Number:</b> 60209,061202,061332,061390
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	619,846.3663    0.0020
<b>Easting (M)</b>	361,255.2118    0.0020
<b>Elevation (M)*</b>	98.963    0.0012
<b>Northing (SFT)</b>	2,033,612.6201
<b>Easting (SFT)</b>	1,185,218.1407
<b>Elevation (SFT)*</b>	324.680

  

<b>Convergence Angle</b>	0   14   11.5571720
<b>Scale Factor</b>	0.999975703
<b>Elevation Adjust. Factor</b>	0.9999844698
<b>Combined Adjust. Factor</b>	0.9999601732

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34   38	53.0165652	
<b>Longitude</b>	92   25	21.4808268	
<b>Ellipsoid Height:</b>	72.601		
<b>Grid Northing (Meters)</b>	619,846.3895		
<b>Grid Easting (Meters)</b>	361,255.1447		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF WEST GATEPOST	92	10.25	33.6
MK # 2	CENTER OF MANHOLE COVER	131	19.50	64.0
MK # 3	CENTER OF MANHOLE COVER	285	27.90	91.5

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> SALIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390.            Elevation based on digital levels from NGS benchmark M 338.         </td> </tr> </table>	Comments	3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338.
Comments			
3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338.			

  

Location Description
TO REACH THE STATION FROM THE VIMY RIDGE ROAD OVERPASS ON I-30 GO WEST 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 26.9 METERS NORTH OF THE CENTERLINE OF THE NORTH SERVICE ROAD, 15.5 METERS WEST OF THE CENTERLINE OF THE WEST ENTRANCE TO GEYER SPRINGS FIRST BAPTIST CHURCH, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600051A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	600051
<b>Geodetic Azimuth</b>	86 05 06
<b>Grid Azimuth</b>	86 19 18

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600052	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-30	<b>Job Number:</b> 60209
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	623,189.5032	
<b>Easting (M)</b>	369,509.4035	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,044,580.8951	
<b>Easting (SFT)</b>	1,212,298.7680	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	10.3816451
<b>Scale Factor</b>	0.999981524		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	40	42.5091900
<b>Longitude</b>	92	19	57.7569684
<b>Ellipsoid Height:</b>	84.389		
<b>Grid Northing (Meters)</b>	623,189.9143		
<b>Grid Easting (Meters)</b>	369,509.7789		

  

Location Description				
THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE STANTON ROAD OVERPASS ON I-30. 6.60 METERS SOUTHWEST OF THE END OF THE BRIDGE, 8.80 METERS WEST OF THE CENTERLINE OF STANTON ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600052-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	103	4.20	13.8
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	32	6.30	20.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALIPORT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	SALIPORT	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ADAMS 2						
Ref Mon # 2	ROCKPORT						
Ref Mon # 3	SALIPORT						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600052A	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-30	<b>Job Number:</b> 60209
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	623,214.5769	
<b>Easting (M)</b>	368,518.8960	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,044,663.1577	
<b>Easting (SFT)</b>	1,209,049.0780	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	32.1611332
<b>Scale Factor</b>	0.999981562		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	40	43.2167592
<b>Longitude</b>	92	20	36.6705600
<b>Ellipsoid Height:</b>	69.384		
<b>Grid Northing (Meters)</b>	623,214.9894		
<b>Grid Easting (Meters)</b>	368,519.2675		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SALIPOINT	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 40 43.2033312
<b>Longitude</b>	92 20 36.6851004
<b>Ellipsoid Height (M):</b>	69.375
<b>Geoid Height (M):</b>	-26.402

Location Description
<p>THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE I-30 BRIDGE OVER GEYER SPRINGS ROAD 4.60 METERS SOUTHEAST OF THE BRIDGE ABUTMENT, 12.0 METERS SOUTH OF THE CENTERLINE OF THE EASTBOUND LANE OF I-30, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600052A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	600052
<b>Geodetic Azimuth</b>	91 15 28
<b>Grid Azimuth</b>	91 27 01

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600053A	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-430	<b>Job Number:</b> 60209,060657,061332
---------------------------	-------------------------------------	------------------------------	--------------------------	-----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	624,974.0418	
<b>Easting (M)</b>	362,966.4894	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,050,435.6688	
<b>Easting (SFT)</b>	1,190,832.5573	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	34.3910074
<b>Scale Factor</b>	0.999984675		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	41	39.6567600
<b>Longitude</b>	92	24	15.0596784
<b>Ellipsoid Height:</b>	71.026		
<b>Grid Northing (Meters)</b>	624,974.4608		
<b>Grid Easting (Meters)</b>	362,966.8393		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 5 (STAGECOACH RD.) BRIDGE GO NORTH ON I-430 1.00 MILES TO THE STATION ON THE LEFT LOCATED IN THE CRNTER MEDIAN OF I-430 700 FEET SOUTH OF THE DAVID O DODD RD. OVERPASS, 6.40 METERS WEST OF CONCRETE SHOULDER, 3.40 METERS EAST OF CONCRETE SHOULDER, AND 1.80 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64MM DISC STAMPED 600053A-2002 SET ON TOP OF A 0.80 STEEL ROD DRIVEN TO RESISTANCE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				<b>AZ Mark Station</b>	600053
MK # 2					<b>Geodetic Azimuth</b>	187 42 19
MK # 3					<b>Grid Azimuth</b>	187 55 53

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> ROCKPORT <b>Ref Mon # 3</b> SALIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600054	<b>Date Monumented</b> 4/7/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 061103, 061194
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	47,930.8029	
<b>Easting (M)</b>	367,180.6660	
<b>Elevation (M)*</b>	154.774	
<b>Northing (SFT)</b>	157,252.9758	
<b>Easting (SFT)</b>	1,204,658.5684	
<b>Elevation (SFT)*</b>	507.788	

  

<b>Convergence Angle</b>	0	12	30.9535085
<b>Scale Factor</b>	1.000037401		
<b>Elevation Adjust. Factor</b>	0.9999757115		
<b>Combined Adjust. Factor</b>	1.0000131116		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND MISSISSIPPI STREET IN LITTL ROCK, GO SOUTH ON MISSISSIPPI STREET 0.45 MILES TO THE STATION ON THE RIGHT. THE STATION IS BETWEEN THE CONC SIDEWALK AND ASPHALT PARKING LOT FOR FIRST CRISTIAN CHURCH (DISCIPLES OF CHRIST). THE STATION IS ON THE WEST SIDE OF MISSISSIPPI STREET AND NORTH WEST OF THE INTERSECTION OF MISSISSIPPI AND M STREET. 9.40 METERS WEST OF THE CENTERLINE OF MISSISSIPPI STREET AND EAST 2.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054 2003" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONC LIGHT POLE	172	25.85	84.8
<b>MK # 2</b>	CONC COMBINATION POLE	4	19.20	63.0
<b>MK # 3</b>	FIRE HYDRANDT	179	22.50	73.8

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Russport, Rouch</p> <p><b>Ref Mon # 2</b>    480016</p> <p><b>Ref Mon # 3</b>    Butler</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3WIRE BY S5101 &amp; S5103 FROM NGS POINT U 72</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600054A	<b>Date Monumented</b> 4/7/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 061103, 061194
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	48,680.5189	
<b>Easting (M)</b>	367,220.6330	
<b>Elevation (M)*</b>	178.286	
<b>Northing (SFT)</b>	159,712.6691	
<b>Easting (SFT)</b>	1,204,789.6934	
<b>Elevation (SFT)*</b>	584.927	

  

<b>Convergence Angle</b>	0	12	30.1013980
<b>Scale Factor</b>	1.000035737		
<b>Elevation Adjust. Factor</b>	0.9999720219		
<b>Combined Adjust. Factor</b>	1.0000077579		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED AT THE SOUTH EAST CORNER OF STATE HIGHWAY 10 AND MISSISSIPPI STREET IN LITTLE ROCK. EAST OF CONC SIDEWALK AND WEST OF CONC CURB. THIS IS THE NORTH WEST CORNER OF THE PARKING LOT FOR HARVEST FOODS. THE STATION IS SOUTH 17.80 METERS OF THE CENTERLINE OF HIGHWAY 10 (CANTREL ROAD) AND EAST 8.80 METERS FROM THE CENTERLINE OF MISSISSIPPI STREET AND 1.10 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	185	13.00	42.7
MK # 2	LIGHT POLE	178	9.80	32.2
MK # 3	COMBINATION POLE	69	9.50	31.2

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Russport, Rouch</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Butler</td> </tr> </table>	Ref Mon # 1	Russport, Rouch	Ref Mon # 2	480016	Ref Mon # 3	Butler	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEVATION BY 3WIRE BY S5101 &amp; S5103 FROM NGS POINT U 72         </td> </tr> </table>	Comments	ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72
Ref Mon # 1	Russport, Rouch								
Ref Mon # 2	480016								
Ref Mon # 3	Butler								
Comments									
ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600055	<b>Date Monumented</b> 4/7/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 061103,Mobie LiDAR-CLS
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	636,352.9122	
<b>Easting (M)</b>	364,972.7044	
<b>Elevation (M)*</b>	93.143	
<b>Northing (SFT)</b>	2,087,767.8461	
<b>Easting (SFT)</b>	1,197,414.6144	
<b>Elevation (SFT)*</b>	305.586	

  

<b>Convergence Angle</b>	0	12	51.2090384
<b>Scale Factor</b>	1.000006908		
<b>Elevation Adjust. Factor</b>	0.9999853831		
<b>Combined Adjust. Factor</b>	0.9999922910		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 100 AND HIGHWAY 430, NORTH OF THE ARKANSAS RIVER, NORTH WEST OF LITTLE ROCK, GO SOUTH ON HIGHWAY 430 FOR 1.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS SOUTH 0.50 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600055 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH WEST CORNER OF ARKANSAS RIVER BRIDGE	80	2.50	8.2	
MK # 2	GUARD RAIL	145	0.90	3.0	
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> Russport, Rouch <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> Butler	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEVATION BY 3WIRE BY S5101 &amp; S5103 FROM NGS POINT U 72         </td> </tr> </table>	Comments	ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72
Comments			
ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600055A	<b>Date Monumented</b> 4/7/2003	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 3,060657,061331,Mobie LiDA
---------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	636,169.3635	
<b>Easting (M)</b>	364,511.7995	
<b>Elevation (M)*</b>	114.649	
<b>Northing (SFT)</b>	2,087,165.6534	
<b>Easting (SFT)</b>	1,195,902.4622	
<b>Elevation (SFT)*</b>	376.145	

  

<b>Convergence Angle</b>	0	13	1.3415499
<b>Scale Factor</b>	1.000006520		
<b>Elevation Adjust. Factor</b>	0.9999820081		
<b>Combined Adjust. Factor</b>	0.9999885280		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EDGE OF CONC	135	3.00	9.8
<b>MK # 2</b>	GUARD RAIL	135	2.30	7.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Russport, Rouch	ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72. ELEVATION WAS UPDATED BY S5113 DURING JOB 060657 FROM 376.335 TO 376.145. NEW ELEV WAS EST FROM G 321.
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> Butler	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600056	<b>Date Monumented</b> 8/18/1903	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> B60117,061303
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 49,370.3019		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 374,503.9850		<b>Latitude</b> 34 46 40.8464184
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 16 42.7161360
<b>Northing (SFT)</b> 161,975.7322		<b>Ellipsoid Height (M):</b> 55.824
<b>Easting (SFT)</b> 1,228,685.1575		<b>Geoid Height (M):</b> -27.597
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 9 43.4796452	
<b>Scale Factor</b> 1.000034166	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Reference Marks</b>			
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>
			<b>Meters</b> <b>Feet</b>
<b>MK # 1</b>	LIGHT POLE	3	25.00   82.0
<b>MK # 2</b>	POWER POLE	339	16.00   52.5
<b>MK # 3</b>			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 600020,600021	
<b>Ref Mon # 2</b> 600025	
<b>Ref Mon # 3</b> 93600013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600056A	<b>Date Monumented</b> 8/18/1903	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> B60117
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 48,962.7890		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 374,492.9370		<b>Latitude</b> 34 46 27.6217104
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 16 43.1052780
<b>Northing (SFT)</b> 160,638.7502		<b>Ellipsoid Height (M):</b> 54.681
<b>Easting (SFT)</b> 1,228,648.9108		<b>Geoid Height (M):</b> -27.588
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 9 43.7060866	
<b>Scale Factor</b> 1.000035062	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Reference Marks</b>			
<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>	
		<b>Meters</b>	<b>Feet</b>
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>						
<table style="width: 100%;"> <tr> <td style="width: 150px;"><b>Ref Mon # 1</b></td> <td>600020,600021</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>600025</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>93600013</td> </tr> </table>	<b>Ref Mon # 1</b>	600020,600021	<b>Ref Mon # 2</b>	600025	<b>Ref Mon # 3</b>	93600013	
<b>Ref Mon # 1</b>	600020,600021						
<b>Ref Mon # 2</b>	600025						
<b>Ref Mon # 3</b>	93600013						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600057A	<b>Date Monumented</b> 8/18/1903	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> B60117,061348
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 52,541.7194		<b>Latitude</b> 34 48 23.6176596
<b>Easting (M)</b> 373,016.3996		<b>Longitude</b> 92 17 41.5936140
<b>Elevation (M)*</b> 93.091		<b>Ellipsoid Height (M):</b> 66.355
<b>Northing (SFT)</b> 172,380.6244		<b>Geoid Height (M):</b> -26.734
<b>Easting (SFT)</b> 1,223,804.6377		
<b>Elevation (SFT)*</b> 305.416		

  

<b>Convergence Angle</b>	0	10	17.7403983
<b>Scale Factor</b>	1.000027343		
<b>Elevation Adjust. Factor</b>	0.9999853912		
<b>Combined Adjust. Factor</b>	1.0000127338		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	51	5.8802580
<b>Longitude</b>	92	17	42.1701468
<b>Ellipsoid Height:</b>	65.429		
<b>Grid Northing (Meters)</b>	57,542.1290		
<b>Grid Easting (Meters)</b>	373,016.7290		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 600020,600021	3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BMs G 290 AND H 290 DURING JOB 061348 BY CREW S5101 IN MAY 2012
<b>Ref Mon # 2</b> 600025	
<b>Ref Mon # 3</b> 93600013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600058	<b>Date Monumented</b> 8/18/1903	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> B60117
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 50,501.5820		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 374,543.1080		<b>Latitude</b> 34 47 17.5597800
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 16 41.3031792
<b>Northing (SFT)</b> 165,687.2736		<b>Ellipsoid Height (M):</b> 60.254
<b>Easting (SFT)</b> 1,228,813.5135		<b>Geoid Height (M):</b> -27.622
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 9 42.6574469	
<b>Scale Factor</b> 1.000031701	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Reference Marks</b>			
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>
			<b>Meters      Feet</b>
<b>MK # 1</b>	POWER POLE	334	12.70      41.7
<b>MK # 2</b>	GUY	352	11.30      37.1
<b>MK # 3</b>			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 600020,600021	
<b>Ref Mon # 2</b> 600025	
<b>Ref Mon # 3</b> 93600013	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600059	<b>Date Monumented</b> 3/16/2006	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 61148,060657
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	43,157.6449	
<b>Easting (M)</b>	363,247.9750	
<b>Elevation (M)*</b>	104.579	
<b>Northing (SFT)</b>	141,593.0400	
<b>Easting (SFT)</b>	1,191,756.0646	
<b>Elevation (SFT)*</b>	343.107	

  

<b>Convergence Angle</b>	0	14	0.4931477
<b>Scale Factor</b>	1.000048352		
<b>Elevation Adjust. Factor</b>	0.9999835884		
<b>Combined Adjust. Factor</b>	1.0000319396		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 43 17.9872752
<b>Longitude</b>	92 24 4.3966440
<b>Ellipsoid Height (M):</b>	78.191
<b>Geoid Height (M):</b>	-26.519

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 300, SOUTHWEST OF LITTLE ROCK, GO NORTH ON I-430 FOR 0.60 MILES TO THE STATION MARK IN THE MEDIAN. EAST 1.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STA</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST CORNER BRIDGE NORTH BO UND LANE	93	3.84	12.6
<b>MK # 2</b>	NORTHEAST CORNER BRIDGE SOUTH BOU ND LANE	257	3.81	12.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> 600041, 600054 <b>Ref Mon # 3</b> 600055	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           3-wire elevations were ran in Mar 2006 by S5103 &amp; S5113 from NGS Z10 &amp; F98 in Job # 061148.         </td> </tr> </table>	Comments	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Comments			
3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600059A	<b>Date Monumented</b> 3/16/2006	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> 61148
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	42,561.3859				
<b>Easting (M)</b>	363,214.9750				
<b>Elevation (M)*</b>	117.569				
<b>Northing (SFT)</b>	139,636.8136				
<b>Easting (SFT)</b>	1,191,647.7971				
<b>Elevation (SFT)*</b>	385.725				

  

<b>Convergence Angle</b>	0	14	1.1922157
<b>Scale Factor</b>	1.000049755		
<b>Elevation Adjust. Factor</b>	0.9999815499		
<b>Combined Adjust. Factor</b>	1.0000313040		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 300, SOUTHWEST OF LITTLE ROCK, GO NORTH ON I-430 FOR 0.20 MILES TO THE STATION MARK IN THE MEDIAN. EAST 1.60 FEET OF A WITNESS POST, 15.30 FEET WEST OF TH EDGE OF CONCRETE (NORTH BOUN			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    600041, 600054 Ref Mon # 3    600055	<b>Comments</b>  3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600060	<b>Date Monumented</b> 3/16/2006	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 61148,061381,061510
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,886.1248	
<b>Easting (M)</b>	365,042.0781	
<b>Elevation (M)*</b>	133.617	
<b>Northing (SFT)</b>	2,069,832.2278	
<b>Easting (SFT)</b>	1,197,642.2179	
<b>Elevation (SFT)*</b>	438.374	

  

<b>Convergence Angle</b>	0	12	49.2327491
<b>Scale Factor</b>	0.999995832		
<b>Elevation Adjust. Factor</b>	0.9999790316		
<b>Combined Adjust. Factor</b>	0.9999748637		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PEAR TREE	191	12.50	41.0
<b>MK # 2</b>	PEAR TREE	262	9.88	32.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
<b>Ref Mon # 2</b> 600041, 600054	
<b>Ref Mon # 3</b> 600055	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600060A	<b>Date Monumented</b> 3/16/2006	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 61148,061381,061510
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,835.0358	
<b>Easting (M)</b>	365,546.6972	
<b>Elevation (M)*</b>	118.275	
<b>Northing (SFT)</b>	2,069,664.6133	
<b>Easting (SFT)</b>	1,199,297.7891	
<b>Elevation (SFT)*</b>	388.042	

  

<b>Convergence Angle</b>	0	12	38.1248110
<b>Scale Factor</b>	0.999995735		
<b>Elevation Adjust. Factor</b>	0.9999814391		
<b>Combined Adjust. Factor</b>	0.9999771742		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	34	44	50.1596340
<b>Longitude</b>	92	22	34.5424296
<b>Ellipsoid Height:</b>	91.770		
<b>Grid Northing (Meters)</b>	630,835.0352		
<b>Grid Easting (Meters)</b>	365,546.6984		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	253	22.04	72.3
MK # 2	MAN HOLE ON INLET	248	21.03	69.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Ref Mon # 2: 600041, 600054	
Ref Mon # 3: 600055	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEIOD09
<b>Latitude</b>	34 44 50.1596520
<b>Longitude</b>	92 22 34.5424800
<b>Ellipsoid Height (M):</b>	91.618
<b>Geoid Height (M):</b>	-26.672

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND I-630, IN WEST LITTLE ROCK, GO EAST ON I-630 FOR 0.80 MILES TO THE STATION MARK ON THE LEFT. SOUTH 1.60 FEET OF A WITNESS POST. 37.10 FEET NORTH OF THE EDGE OF CONCRETE OF THE WEST BOUND LANE AND 2</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600061	<b>Date Monumented</b> 3/16/2006	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 61148,061381
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,632.5849	
<b>Easting (M)</b>	367,659.7462	
<b>Elevation (M)*</b>	115.523	
<b>Northing (SFT)</b>	2,069,000.4056	
<b>Easting (SFT)</b>	1,206,230.3507	
<b>Elevation (SFT)*</b>	379.013	

  

<b>Convergence Angle</b>	0	11	51.6134134
<b>Scale Factor</b>	0.999995354		
<b>Elevation Adjust. Factor</b>	0.9999818710		
<b>Combined Adjust. Factor</b>	0.9999772250		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	44	43.8344088
<b>Longitude</b>	92	21	11.4406020
<b>Ellipsoid Height:</b>	88.977		
<b>Grid Northing (Meters)</b>	630,632.5914		
<b>Grid Easting (Meters)</b>	367,659.7439		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-630 AND UNIVERSITY AVE, (EXIT 5). IN LITTLE ROCK, GO WEST ON 630 FOR 0.65 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 2.00 FEET OF A WITNESS POST AND 29.00 FEET NORTH OF THE EDGE OF CONCRETE OF WEST BOU			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    600041, 600054 Ref Mon # 3    600055	<b>Comments</b>  3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600062A	<b>Date Monumented</b> 1/1/2007	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-40	<b>Job Number:</b> 012119
---------------------------	------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	55,747.1490	
<b>Easting (M)</b>	368,175.0040	
<b>Elevation (M)*</b>	81.938	
<b>Northing (SFT)</b>	182,897.1047	
<b>Easting (SFT)</b>	1,207,920.8256	
<b>Elevation (SFT)*</b>	268.824	

  

<b>Convergence Angle</b>	0	12	8.8337763
<b>Scale Factor</b>	1.000020719		
<b>Elevation Adjust. Factor</b>	0.9999871414		
<b>Combined Adjust. Factor</b>	1.0000078602		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	south east end of I-40 east bound bridge	284	3.50	11.5
<b>MK # 2</b>	south west of I-40 west bound bridge	75	25.90	85.0
<b>MK # 3</b>	east end of a 24 inch cross drain pipe	165	28.50	93.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    50    7.1204352
<b>Longitude</b>	92    20    52.5087960
<b>Ellipsoid Height (M):</b>	55.056
<b>Geoid Height (M):</b>	-26.887

Location Description
<p>To reach the station from jct. I-40 and SR-365 (exit-142) north west of Little Rock AR., follow I-40 east 4.5 miles to the station on the left side in the median, 11.5 feet south east of a I-40 east bound bridge, 4 feet south of top of slope to creek bank, and 8 foot east of a witness post. The station is a standard 2.5 inch cap stamped "600062A 2007" on top of a 4 foot rebar and driven 0.2 foot below the surface</p>

<b>AZ Mark Station</b>	60068
<b>Geodetic Azimuth</b>	343 37 36
<b>Grid Azimuth</b>	343 49 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600063	<b>Date Monumented</b> 1/1/2007	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> NA	<b>Job Number:</b> 061201, XR60101
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	---------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	622,968.0279	
<b>Easting (M)</b>	375,771.3420	
<b>Elevation (M)*</b>	96.542	
<b>Northing (SFT)</b>	2,043,854.2715	
<b>Easting (SFT)</b>	1,232,843.1445	
<b>Elevation (SFT)*</b>	316.738	

  

<b>Convergence Angle</b>	0	8	52.6916196
<b>Scale Factor</b>	0.999981165		
<b>Elevation Adjust. Factor</b>	0.9999848496		
<b>Combined Adjust. Factor</b>	0.9999660149		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 530 AND DIXON ROAD (EXIT 3), SOUTH OF LITTLE ROCK, GO EAST ON DIXON ROAD (HIGHWAY 338) APPROXIMATELY 300 FEET AND TURN LEFT ON SHAMBURGER ROAD AND GO 0.29 MILES TO THE SECOND PAVED DRIVEWAY LEADING TO THE AHTD R.E OFFICE LOCATED BEHIND THE AHTD MAINTENANCE AREA HDQRS. GO SOUTHEAST ON THIS DRIVEWAY FOR 225 FEET TO THE STATION MARK LOCATED IN THE FRONT YARD ON THE SIDE OF A SMALL HILL. THE MARK IS 61.5 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BLDG. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600063 2008" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND AND NORTH 24.0 FEET OF A WITNESS POST.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SW CORNER R.E. BLDG		18.75	61.5	
MK # 2	FLAGPOLE	359	16.31	53.5	
MK # 3	6 FOOT CHAINLINK FENCE CORNER		26.21	86.0	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARLR	<p>3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.</p>
Ref Mon # 2	ARBT	
Ref Mon # 3	ARHP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600063A	<b>Date Monumented</b> 3/19/2007	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> NA	<b>Job Number:</b> XR60101
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	644,760.7480	
<b>Easting (M)</b>	378,609.0362	
<b>Elevation (M)*</b>	80.371	
<b>Northing (SFT)</b>	2,115,352.5541	
<b>Easting (SFT)</b>	1,242,153.1463	
<b>Elevation (SFT)*</b>	263.684	

  

<b>Convergence Angle</b>	0	7	51.3972801
<b>Scale Factor</b>	1.000025488		
<b>Elevation Adjust. Factor</b>	0.9999873873		
<b>Combined Adjust. Factor</b>	1.0000128750		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	272	15.85	52.0
<b>MK # 2</b>	Gas meter	300	27.43	90.0
<b>MK # 3</b>	Chain link fence corner	229	15.36	50.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> 600045 <b>Ref Mon # 2</b> 600015 <b>Ref Mon # 3</b> 600046	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 52 23.3172696
<b>Longitude</b>	92 14 2.2460676
<b>Ellipsoid Height (M):</b>	53.439
<b>Geoid Height (M):</b>	-26.932

Location Description
To reach the station from the junction of highways 176 and 107 on the north side of North Little Rock go north on hwy-107 for 1.40 miles to Kellogg road. Turn left on Kellogg road and go 1.60 miles to the station on the left. 18.0 feet south of the center of Kellogg road and 3.80 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "600063A 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

<b>AZ Mark Station</b>	600063
<b>Geodetic Azimuth</b>	90 57 32
<b>Grid Azimuth</b>	91 05 42

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600064	<b>Date Monumented</b> 2/13/2008	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 30	<b>Job Number:</b> 1, XR60101, 061277, 060395,0
--------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,240.4740	
<b>Easting (M)</b>	375,544.4130	
<b>Elevation (M)*</b>	84.192	
<b>Northing (SFT)</b>	2,061,152.2884	
<b>Easting (SFT)</b>	1,232,098.6283	
<b>Elevation (SFT)*</b>	276.220	

  

<b>Convergence Angle</b>	0	8	57.9832071
<b>Scale Factor</b>	0.999990801		
<b>Elevation Adjust. Factor</b>	0.9999867877		
<b>Combined Adjust. Factor</b>	0.9999775888		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE	69	1.16	3.8
<b>MK # 2</b>	C/L CONCRETE DITCH	310	8.53	28.0
<b>MK # 3</b>	BACK OF CURB I 30 S.	125	1.40	4.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARHP	<b>Comments</b> 3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.
---	--

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 43 26.9821380
<b>Longitude</b>	92 16 1.2152208
<b>Ellipsoid Height (M):</b>	57.616
<b>Geoid Height (M):</b>	-26.593

Location Description
AT THE INTERSECTION OF I 30 AND ROOSEVELT RD, SOUTH EAST OF LITTLER ROCK, GO NORTH 80 FEET (CHAINED DISTANCE) FROM THE C/L OF ROOSEVELT ROAD ALONG THE WEST EDGE OF I 30 WEST BOUND LANE TO THE MARK, 59.0 FEET EAST OF THE C/L OF THE FRONTAGE ROAD AND WEST 1.90 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600063 2008" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	600064A
<b>Geodetic Azimuth</b>	23 01 32
<b>Grid Azimuth</b>	23 10 30

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600064A	<b>Date Monumented</b> 2/13/2008	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I 30	<b>Job Number:</b> 1201, XR60101, 061277, 0603
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	628,699.9480
<b>Easting (M)</b>	375,741.1070
<b>Elevation (M)*</b>	90.563
<b>Northing (SFT)</b>	2,062,659.7461
<b>Easting (SFT)</b>	1,232,743.9485
<b>Elevation (SFT)*</b>	297.122

  

<b>Convergence Angle</b>	0	8	53.6824299
<b>Scale Factor</b>	0.999991675		
<b>Elevation Adjust. Factor</b>	0.9999857879		
<b>Combined Adjust. Factor</b>	0.9999774630		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BACK OF CURB 21st	001	2.59	8.5
<b>MK # 2</b>	C/L METAL METAL GRATE INLET	348	3.26	10.7
<b>MK # 3</b>	ELECTRIC LIGHT POLE	148	18.50	60.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARHP	3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND 21st STREET, IN LITTLE ROCK, GO WEST ON 21st FROM THE C/L ,OF I 30 FOR 132.7 FEET AS MEASURED ON THE 21 st OVERPASS TO THE STATION MARK ON THE LEFT, 35.0 FEET SOUTH OF THE C/L OF 21st STREET 35.4 FEET EAST OF THE FRONTAGE ROAD (VANCE ST.) AND SOUTH 3.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600064A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND. AHTD BM ON PARAPET WALL BEARS 56 DEGREES 7.00 FEET.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600065	<b>Date Monumented</b> 8/25/2008	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 167	<b>Job Number:</b> R60080_new
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	55,099.8290	
<b>Easting (M)</b>	383,445.5750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	180,773.3556	
<b>Easting (SFT)</b>	1,258,021.0240	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	6	19.0917566
<b>Scale Factor</b>	1.000021959		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>The station is located on the northeast corner of the highway 176 (Kiehl Av.) overpass over Hwy-167/67 in Sherwood. 7.80 feet from the back of the Hwy-176 curb, 3.40 feet northeast of the corner of the bridge and 1.50 feet from a witness post. The station mark is a 2 1/2 inch cap set on top of a 5/8 inch by 4 foot long rebar and is stamped "600065 2008" and is 0.20 feet below the grounds surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of wingwall	345	1.04	3.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600066	<b>Date Monumented</b> 8/25/2008	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> NA	<b>Job Number:</b> R60080_new 061475
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	53,397.6019	
<b>Easting (M)</b>	380,867.0220	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	175,188.6322	
<b>Easting (SFT)</b>	1,249,561.2213	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	7	18.0569564
<b>Scale Factor</b>	1.000025499		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	telephone box	345	2.99	9.8
<b>MK # 2</b>	Combination pole	170	16.76	55.0
<b>MK # 3</b>	Center of manhole	177	1.06	3.5

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> 600045, 600045A,	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    48    52.0429212
<b>Longitude</b>	92    12    32.8056588
<b>Ellipsoid Height (M):</b>	56.253
<b>Geoid Height (M):</b>	-26.728

  

Location Description
To reach the station from the junction of highways 167/67 and Wildwood Ave. in Sherwood go west on Wildwood for 0.30 miles to the station on the right just west of the intersection with Country club road in the lawn of the "Hand and Extremity Clinic" and across the street from the hospital. 21.0 feet north of the center of Wildwood Ave., 14.40 feet south of the edge of a sidewalk. There is NO witness post. The station mark is a 2 1/2 inch cap stamped "600066 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600066A	<b>Date Monumented</b> 8/25/2008	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 167	<b>Job Number:</b> R60080_new
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	----------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	53,341.8119	
<b>Easting (M)</b>	381,389.2870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	175,005.5945	
<b>Easting (SFT)</b>	1,251,274.6858	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	7	6.0968918
<b>Scale Factor</b>	1.000025614		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of a drop inlet	192	4.18	13.7
<b>MK # 2</b>	Southwest corner of bridge wingwall	56	1.82	6.0
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	600066
<b>Geodetic Azimuth</b>	275 58 45
<b>Grid Azimuth</b>	276 05 51

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR	
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> 600045, 600045A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600068	<b>Date Monumented</b> 2/2/2010	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> I-40	<b>Job Number:</b> 012119
--------------------------	------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	56,180.1689	
<b>Easting (M)</b>	368,049.4380	
<b>Elevation (M)*</b>	87.418	
<b>Northing (SFT)</b>	184,317.7708	
<b>Easting (SFT)</b>	1,207,508.8645	
<b>Elevation (SFT)*</b>	286.804	

  

<b>Convergence Angle</b>	0	12	11.7445584
<b>Scale Factor</b>	1.000019840		
<b>Elevation Adjust. Factor</b>	0.9999862815		
<b>Combined Adjust. Factor</b>	1.0000061212		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	east end of a gate post	250	2.30	7.5
MK # 2	weat end of a 48 inch cross drain	201	17.68	58.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARBT	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600069	<b>Date Monumented</b> 7/6/2011	<b>Monumented By</b> S5112	<b>County</b> PULASKI	<b>Route</b> 367	<b>Job Number:</b> 061261,061383
--------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	61,643.3210	
<b>Easting (M)</b>	390,412.3849	
<b>Elevation (M)*</b>	91.422	
<b>Northing (SFT)</b>	202,241.4623	
<b>Easting (SFT)</b>	1,280,877.9661	
<b>Elevation (SFT)*</b>	299.940	

  

<b>Convergence Angle</b>	0	3	39.7135135
<b>Scale Factor</b>	1.000009032		
<b>Elevation Adjust. Factor</b>	0.9999856531		
<b>Combined Adjust. Factor</b>	0.9999946850		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367, ALSO KNOWN AS TP WHITE DRIVE, FOR 5.0 MILES TO THE MARK ON THE RIGHT, 8 FEET NORTHWEST OF THE EDGE OF THE PAVEMENT OF THE EAST SERVICE ROAD AND SOUTHEAST OF THE EDGE OF PAVEMENT FOR THE NORTH BOUND LANE OF STATE HIGHWAY 167. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600069 20111" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	44	20.73	68.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2: 430017A, 430014, 430014A	
Ref Mon # 3: 430016, 430016A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600070	<b>Date Monumented</b> 7/6/2011	<b>Monumented By</b> S5112	<b>County</b> PULASKI	<b>Route</b> 367	<b>Job Number:</b> 061261,061383
--------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	64,982.1326	
<b>Easting (M)</b>	392,510.5148	
<b>Elevation (M)*</b>	90.160	
<b>Northing (SFT)</b>	213,195.5467	
<b>Easting (SFT)</b>	1,287,761.5806	
<b>Elevation (SFT)*</b>	295.799	

  

<b>Convergence Angle</b>	0	2	51.6956689
<b>Scale Factor</b>	1.000002846		
<b>Elevation Adjust. Factor</b>	0.9999858512		
<b>Combined Adjust. Factor</b>	0.9999886972		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	88	18.29	60.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 430017A, 430014, 430014A	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> 430016, 430016A	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 55 8.5198501
<b>Longitude</b>	92 4 55.0608802
<b>Ellipsoid Height (M):</b>	63.159
<b>Geoid Height (M):</b>	-27.001

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.4 MILES TO THE MARK ON THE RIGHT, NORTHWEST 70 FEET OF A FENCE CORNER, 63 FEET NORTHWEST OF A POWERPOLE WITH LIGHT AND WEST 60 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600070A	<b>Date Monumented</b> 7/6/2011	<b>Monumented By</b> S5112	<b>County</b> PULASKI	<b>Route</b> 367	<b>Job Number:</b> 061261,061383
---------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	64,566.6171
<b>Easting (M)</b>	392,464.1119
<b>Elevation (M)*</b>	79.699
<b>Northing (SFT)</b>	211,832.3096
<b>Easting (SFT)</b>	1,287,609.3405
<b>Elevation (SFT)*</b>	261.480

  

<b>Convergence Angle</b>	0	2	52.7514723
<b>Scale Factor</b>	1.000003600		
<b>Elevation Adjust. Factor</b>	0.9999874927		
<b>Combined Adjust. Factor</b>	0.9999910927		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.65 MILES TO THE MARK ON THE RIGHT, 36 FEET SOUTHEAST OF THE EDGE OF THE PAVEMENT OF THE NORTHBOUND LANE OF 167 AND WEST 21.6 FEET OF THE CENTERLINE OF TP WHITE DRIVE, AND WEST 59.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070A 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    430017A, 430014, 430014A</p> <p><b>Ref Mon # 3</b>    430016, 430016A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600071	<b>Date Monumented</b> 8/3/2011	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 10	<b>Job Number:</b> 061331,Mobie LiDAR-CLS
--------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	636,959.8840	0.0047			
<b>Easting (M)</b>	359,374.7125	0.0046			
<b>Elevation (M)*</b>	87.765				
<b>Northing (SFT)</b>	2,089,759.2194				
<b>Easting (SFT)</b>	1,179,048.5359				
<b>Elevation (SFT)*</b>	287.942				

  

<b>Convergence Angle</b>	0	14	54.5186321
<b>Scale Factor</b>	1.000008135		
<b>Elevation Adjust. Factor</b>	0.9999862270		
<b>Combined Adjust. Factor</b>	0.9999943619		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	36"RCP	96	30.48	100.0
<b>MK # 2</b>	Combo. Pole	336	12.19	40.0
<b>MK # 3</b>	North East corner of North side of Bridge	263	32.00	105.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600071A	<b>Date Monumented</b> 8/3/2011	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 10	<b>Job Number:</b> 061331,Mobie LiDAR-CLS
---------------------------	------------------------------------	------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	636,774.6834	0.0044			
<b>Easting (M)</b>	359,867.9590	0.0042			
<b>Elevation (M)*</b>	96.841				
<b>Northing (SFT)</b>	2,089,151.6071				
<b>Easting (SFT)</b>	1,180,666.7955				
<b>Elevation (SFT)*</b>	317.720				

  

<b>Convergence Angle</b>	0	14	43.6406175
<b>Scale Factor</b>	1.000007750		
<b>Elevation Adjust. Factor</b>	0.9999848027		
<b>Combined Adjust. Factor</b>	0.9999925526		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combo Pole	124	16.46	54.0
<b>MK # 2</b>	12" RCP	234	22.25	73.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600072	<b>Date Monumented</b> 7/1/2012	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 176	<b>Job Number:</b> 061348,061166
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	51,598.4462	
<b>Easting (M)</b>	375,363.3985	
<b>Elevation (M)*</b>	92.795	
<b>Northing (SFT)</b>	169,285.9022	
<b>Easting (SFT)</b>	1,231,504.7499	
<b>Elevation (SFT)*</b>	304.444	

  

<b>Convergence Angle</b>	0	9	23.9513707
<b>Scale Factor</b>	1.000029335		
<b>Elevation Adjust. Factor</b>	0.9999854377		
<b>Combined Adjust. Factor</b>	1.0000147722		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
The station is just north of the junction of highway 176 and 47th street. It is a standard alum. cap and stamped 600072 - 2012 and set on a 2' - 5/8" rebar. It is 54' N. W. of the N.W. corner of pizza hut at an az. of 115. And 30' west of the cl 176. Lat. 34.4753 Lon.92.1608			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North of Man Hole	210	3.04	10.0
MK # 2	east of cl 176		9.14	30.0
MK # 3	south of cl asph dr tomexican resturant		9.45	31.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	RESET FOR 600020A ***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600073	<b>Date Monumented</b> 7/20/2012	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> NA	<b>Job Number:</b> 061348
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	52,174.2507				
<b>Easting (M)</b>	373,183.9443				
<b>Elevation (M)*</b>	92.743				
<b>Northing (SFT)</b>	171,175.0208				
<b>Easting (SFT)</b>	1,224,354.3239				
<b>Elevation (SFT)*</b>	304.275				

  

<b>Convergence Angle</b>	0	10	13.8797522
<b>Scale Factor</b>	1.000028121		
<b>Elevation Adjust. Factor</b>	0.9999854458		
<b>Combined Adjust. Factor</b>	1.0000135664		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FE corner	199	18.90	62.0
<b>MK # 2</b>	CP	251	14.60	47.9
<b>MK # 3</b>	FE corner	270	15.50	50.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>RESET for 600057 (JUST A NEW CAP)</td> </tr> </table>	Comments	RESET for 600057 (JUST A NEW CAP)
Comments			
RESET for 600057 (JUST A NEW CAP)			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600074	<b>Date Monumented</b> 12/17/2012	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 630	<b>Job Number:</b> 061381
--------------------------	--------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	630,622.0770		
<b>Easting (M)</b>	369,348.6081		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,068,965.9310		
<b>Easting (SFT)</b>	1,211,771.2251		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	11	14.4512906
<b>Scale Factor</b>	0.999995345		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Traffic Signal Box	58	5.64	18.5
<b>MK # 2</b>	Traffic Signal Pole	120	11.37	37.3
<b>MK # 3</b>	9 inch Pine Tree	269	13.90	45.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:** GEIOD09

**Latitude** 34 44 43.6773480

**Longitude** 92 20 5.0429040

**Ellipsoid Height (M):** 85.985

**Geoid Height (M):** -26.646

  

**Location Description**

From Interstate 430 and 630 in West Little Rock, go East on Interstate 630 for 3.2 miles to exit 4 (Fair Park Blvd.). Follow off ramp 0.05 miles to Fair Park Blvd. Turn left, North on Fair Park Blvd. for 0.05 miles to the station on the left. The station is 32 ft. SouthWest from the end of the guardrail. And 23 ft. West of a metal witness post. The station mark is a 2 1/2 in. cap stamped "600074 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600075	<b>Date Monumented</b> 6/24/2013	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> DSEY RC	<b>Job Number:</b> BB0611 BB0612
--------------------------	-------------------------------------	------------------------------	--------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	42,190.0105	0.0020	
<b>Easting (M)</b>	382,834.8294	0.0020	
<b>Elevation (M)*</b>	75.469		
<b>Northing (SFT)</b>	138,418.3928		
<b>Easting (SFT)</b>	1,256,017.2695		
<b>Elevation (SFT)*</b>	247.602		

  

<b>Convergence Angle</b>	0	6	32.5150523
<b>Scale Factor</b>	1.000050494		
<b>Elevation Adjust. Factor</b>	0.9999881566		
<b>Combined Adjust. Factor</b>	1.0000386500		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	42	48.4875396
<b>Longitude</b>	92	11	14.5417128
<b>Ellipsoid Height:</b>	48.967		
<b>Grid Northing (Meters)</b>	42,190.0073		
<b>Grid Easting (Meters)</b>	382,834.8214		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	330	21.76	71.4
MK # 2	MANHOLE	90	20.94	68.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT (ARCM - SS)	ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. **NOTE: USED ELEV. FROM DIGITAL LEVELS AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT IN SUPERCEDED POSITION. *****NOTE: CONSTRAINED ORTHOMETRIC HTS. ON AHTD CORS ARBT, ARLR &
Ref Mon # 2    ARLR (MSB6 - SS)	
Ref Mon # 3    ARWY (P777 - SS)	

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    42    48.4876440
<b>Longitude</b>	92    11    14.5413996
<b>Ellipsoid Height (M):</b>	48.869    0.0060
<b>Geoid Height (M):</b>	-26.599    0.0060

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 440 AND FOURCHE DAM PIKE (EXIT 5), EAST SOUTHEAST OF LITTLE ROCK, GO SOUTH ON FOURCHE DAM PIKE FOR 0.15 MILES AND TURN LEFT (EAST) ON LINDSEY ROAD AND GO 0.1 MILES TO THE MARK ON THE RIGHT, 66.6 FEET EAST OF THE CENTERLINE OF A CONCRETE DRIVE TO RYERSON, 21.2 FEET NORTH OF A 6 FOOT CHAINLINK FENCE AND SOUTH 41 FEET OF THE CENTERLINE OF LINDSEY ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600075 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	PAGIS 2001
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600076	<b>Date Monumented</b> 12/4/2014	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 70	<b>Job Number:</b> 61448 061475 BB0612,06167
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	48,691.1212 0.0020
<b>Easting (M)</b>	385,580.3053 0.0030
<b>Elevation (M)*</b>	76.480 0.0020
<b>Northing (SFT)</b>	159,747.4535
<b>Easting (SFT)</b>	1,265,024.7183
<b>Elevation (SFT)*</b>	250.919

  

<b>Convergence Angle</b>	0 5 29.9723361
<b>Scale Factor</b>	1.000035607
<b>Elevation Adjust. Factor</b>	0.9999879979
<b>Combined Adjust. Factor</b>	1.0000236045

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEIOD12A
<b>Latitude</b>	34 46 19.6030020
<b>Longitude</b>	92 9 27.0610596
<b>Ellipsoid Height (M):</b>	49.732 0.0120
<b>Geoid Height (M):</b>	-26.701

  

Location Description
<p>TO REACH THE STATION MARK FROM THE INTERSECTION OF INTERSTATE 440 AND STATE HIGHWAY 70, IN EAST LITTLE ROCK, GO EAST ON HIGHWAY 70 FOR 0.25 MILES TO THE MARK ON THE LEFT, 29.5 FEET NORTH OF THE CENTERLINE OF HIGHWAY, 11 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE, 168 FEET WEST OF CENTERLINE OF EANES ROAD AND SOUTH 2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600076 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	52.50	172.2
MK # 2	TELEPHONE BOX	232	56.50	185.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARLR (ARLR - SS)	<p>PREVIOUS ELEVATION (76.4952 m) WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM GALLOWAY 2 RM 1 BY CREW S5114 DURING JOB 061448 IN JAN 2015.</p> <p>*****UPDATE D ELEV. ESTABLISHED BY S5112 IN JAN. 2017 FOR JOB #BB0612 USING DIGITAL LEVELS FROM 1ST ORDER USC&amp;GS BM WPY.</p>
Ref Mon # 2 ARBT (ARBT - SS)	
Ref Mon # 3 ARWY (ARWY - SS)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600076A	<b>Date Monumented</b> 12/4/2014	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 70	<b>Job Number:</b> 61448,BB0620,BB0612,06167
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	48,982.7572 0.0020
<b>Easting (M)</b>	386,212.3239 0.0030
<b>Elevation (M)*</b>	76.258 0.0017
<b>Northing (SFT)</b>	160,704.2626
<b>Easting (SFT)</b>	1,267,098.2660
<b>Elevation (SFT)*</b>	250.191

  

<b>Convergence Angle</b>	0 5 15.5198031
<b>Scale Factor</b>	1.000034962
<b>Elevation Adjust. Factor</b>	0.9999880327
<b>Combined Adjust. Factor</b>	1.0000229943

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	34 46	29.0988084	
<b>Longitude</b>	92 9	2.2241916	
<b>Ellipsoid Height:</b>	49.487		
<b>Grid Northing (Meters)</b>	48,982.7626		
<b>Grid Easting (Meters)</b>	386,212.3247		

  

Location Description				
TO REACH THE STATION MARK FROM THE INTERSECTION OF INTERSTATE 440 AND STATE HIGHWAY 70, IN EAST LITTLE ROCK, GO EAST ON HIGHWAY 70 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 21.5 FEET SOUTH OF THE CENTERLINE OF HIGHWAY, 51 FEET EAST OF THE CENTERLINE OF A GRAVEL DRIVE TO QUALITY TRUCKING, AND NORTH 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600076A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	VINYL FENCE CORNER	195	13.00	42.7
MK # 2	COMBINATION POLE	50	25.00	82.0
MK # 3	TELEPHONE BOX	85	14.50	47.6

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARLR"/> Ref Mon # 2 <input type="text" value="ARBT"/> Ref Mon # 3 <input type="text" value="ARWY"/>	ELEVATION WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM GALLOWAY 2 RM 1 BY CREW S5114 DURING JOB 061448 IN JAN 2015. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600077	<b>Date Monumented</b> 1/9/2017	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> I-440	<b>Job Number:</b> BB0612
--------------------------	------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	44,696.3718	0.0020
<b>Easting (M)</b>	384,448.1277	0.0020
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	146,641.3465	
<b>Easting (SFT)</b>	1,261,310.2323	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	5	55.7227642
<b>Scale Factor</b>	1.000044630		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF DI	125	2.74	9.0
MK # 2	NW CORNER OF BR	195	11.58	38.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY, ARPB</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	ARLR	Ref Mon # 3	ARWY, ARPB	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR &amp; ARPB IN FINAL STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 1	ARBT								
Ref Mon # 2	ARLR								
Ref Mon # 3	ARWY, ARPB								
Comments									
GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.									

  

Location Description
STA IS LOCATED AT THE NW CORNER OF THE I-440 BR OVER US-165 E OF LITTLE ROCK. 6.5' W OF GUARD RAIL. STA IS A 2 1/2" ALUM CAP STAMPED "600077 2017" SET BELOW SURFACE.

  

<b>AZ Mark Station</b>	600077A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600077-1	<b>Date Monumented</b> 2/18/2016	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 061507
----------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	61,727.7103    0.0020
<b>Easting (M)</b>	361,758.9758    0.0020
<b>Elevation (M)*</b>	104.357

  

<b>Northing (SFT)</b>	202,518.3295	
<b>Easting (SFT)</b>	1,186,870.9064	
<b>Elevation (SFT)*</b>	342.378	

  

<b>Convergence Angle</b>	0	14	36.3494480
<b>Scale Factor</b>	1.000009016		
<b>Elevation Adjust. Factor</b>	0.9999836233		
<b>Combined Adjust. Factor</b>	0.9999926391		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 35.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 23.5 FEET OF THE CENTERLINE OF AN ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	111	5.00	16.4
MK # 2	SOUTHWEST CORNER ROCK SIGN	74	25.40	83.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARBT Ref Mon # 2    ARHR Ref Mon # 3    ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.         </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600077A	<b>Date Monumented</b> 1/9/2017	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 165	<b>Job Number:</b> BB0612
---------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	44,848.1461	0.0020			
<b>Easting (M)</b>	383,977.5996	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	147,139.2927				
<b>Easting (SFT)</b>	1,259,766.5080				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	6	6.4914428
<b>Scale Factor</b>	1.000044282		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	51	29.38	96.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARWY,ARPB	

  

<b>Location Description</b>
FROM JCT OF I-440 & US-165 E OF LITTLE ROCK, GO W 0.3 MI TO STA ON R, ATOP LEVEE. 38.7' N OF US-165. 42.4' E OF RD BETWEEN LEVEE BREAK. 29' SW OF S RAIL. STA IS A 2 1/2" ALUM CAP STAMPED "600077A 2017" SET BELOW SURFACE.

  

<b>AZ Mark Station</b>	600077
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600077A-1	<b>Date Monumented</b> 2/18/2016	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 365	<b>Job Number:</b> 061507
-----------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	61,901.8688    0.0020
<b>Easting (M)</b>	361,250.9813    0.0020
<b>Elevation (M)*</b>	100.832
<b>Northing (SFT)</b>	203,089.7146
<b>Easting (SFT)</b>	1,185,204.2611
<b>Elevation (SFT)*</b>	330.812

  

<b>Convergence Angle</b>	0	14	48.0079294
<b>Scale Factor</b>	1.000008691		
<b>Elevation Adjust. Factor</b>	0.9999841764		
<b>Combined Adjust. Factor</b>	0.9999928673		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 38.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 31 FEET OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	281	9.50	31.2
MK # 2	FIRE HYDRANT	296	95.50	313.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARHR</p> <p>Ref Mon # 3    ARLR, P777</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600078	<b>Date Monumented</b> 1/9/2017	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-440	<b>Job Number:</b> BB0612
--------------------------	------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	46,027.8413	0.0020			
<b>Easting (M)</b>	385,108.2415	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	151,009.6760				
<b>Easting (SFT)</b>	1,263,475.9557				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	5	40.6741056
<b>Scale Factor</b>	1.000041578		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE OF NE CORNER OF BR	196	13.41	44.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2    ARLR	
Ref Mon # 3    ARWY, ARPB	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	34    44    53.1552156
<b>Longitude</b>	92    9    45.4521672
<b>Ellipsoid Height (M):</b>	55.892    0.0040
<b>Geoid Height (M):</b>	-26.650    0.0040

  

Location Description
FROM JCT OF I-440 & US-70 NW OF N LITTLE ROCK, GO W ON I-440 FOR 1.6 MILES TO STA ON L, ATOP BR BANK. 7' E OF EDGE OF CONC OF EASTBOUND LANE I-440. STA IS A 2 1/2" ALUM CAP STAMPED "600078 2017" SET BELOW SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600078A	<b>Date Monumented</b> 1/9/2017	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> I-440	<b>Job Number:</b> BB0612
---------------------------	------------------------------------	------------------------------	--------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	45,965.4755	0.0020			
<b>Easting (M)</b>	385,745.0348	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	150,805.0642				
<b>Easting (SFT)</b>	1,265,565.1683				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	5	26.1041549
<b>Scale Factor</b>	1.000041718		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SE OF FE CORNER	307	19.02	62.4
<b>MK # 2</b>	W OF TB BOX	130	5.79	19.0
<b>MK # 3</b>	W OF GUY WIRE	135	6.19	20.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARWY, ARPB	

  

<b>AZ Mark Station</b>	600078
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610001	<b>Date Monumented</b> 1/28/2003	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 62	<b>Job Number:</b> 100358
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	213,973.8690		
<b>Easting (M)</b>	488,821.6770		
<b>Elevation (M)*</b>	101.425		
<b>Northing (SFT)</b>	702,012.6019		
<b>Easting (SFT)</b>	1,603,742.4520		
<b>Elevation (SFT)*</b>	332.757		

  

<b>Convergence Angle</b>	0	34	30.4451105
<b>Scale Factor</b>	1.000004964		
<b>Elevation Adjust. Factor</b>	0.9999840834		
<b>Combined Adjust. Factor</b>	0.9999890474		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	100	19.60	64.3
MK # 2				
MK # 3				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BUTLER, 480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM2 CORS</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AHTD PAR 1	Ref Mon # 2	BUTLER, 480016	Ref Mon # 3	MEM2 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41</td> </tr> </table>	Comments	3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AHTD PAR 1										
Ref Mon # 2	BUTLER, 480016										
Ref Mon # 3	MEM2 CORS										
Comments											
3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41											

  

Location Description	
TO REACH THE STATION FROM STATE HIGHWAY 62 AND STATE HIGHWAY 166 WEST, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.31 MILES TO THE STATION ON THE LEFT, 9.10 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 19.40 METERS EAST OF AN ASPH. DRIVE AND 4.65 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	610001A
<b>Geodetic Azimuth</b>	272 25 29
<b>Grid Azimuth</b>	271 50 58

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610001A	<b>Date Monumented</b> 1/28/2003	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 62	<b>Job Number:</b> 100358
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	214,092.9998		
<b>Easting (M)</b>	496,755.1690		
<b>Elevation (M)*</b>	127.670		
<b>Northing (SFT)</b>	702,403.4502		
<b>Easting (SFT)</b>	1,629,770.9170		
<b>Elevation (SFT)*</b>	418.863		

  

<b>Convergence Angle</b>	0	37	35.3920919
<b>Scale Factor</b>	1.000005030		
<b>Elevation Adjust. Factor</b>	0.9999799648		
<b>Combined Adjust. Factor</b>	0.9999849947		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM STATE HIGHWAY 166 WEST AND STATE HIGHWAY 62, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.85 MILES TO THE STATION ON THE RIGHT, THE STATION IS 5.8 METERS SOUTH OF A NETWIRE FENCE WITH ONE STRAN OF BARBWIRE, 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.7 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    AHTD PAR 1 Ref Mon # 2    BUTLER, 480016 Ref Mon # 3    MEM2 CORS	<b>Comments</b> 3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610002	<b>Date Monumented</b> 1/28/2003	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 166	<b>Job Number:</b> 100091,100993
--------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	220,411.6554	0.0030
<b>Easting (M)</b>	496,686.0752	0.0030
<b>Elevation (M)*</b>	87.428	

  

<b>Northing (SFT)</b>	723,133.9061	
<b>Easting (SFT)</b>	1,629,544.2317	
<b>Elevation (SFT)*</b>	286.838	

  

<b>Convergence Angle</b>	0 37	35.3920919
<b>Scale Factor</b>	1.000017218	
<b>Elevation Adjust. Factor</b>	0.9999862798	
<b>Combined Adjust. Factor</b>	1.0000034976	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	18	54.8074296
<b>Longitude</b>	90	55	24.0855420
<b>Ellipsoid Height:</b>	59.062		
<b>Grid Northing (Meters)</b>	220,411.6391		
<b>Grid Easting (Meters)</b>	496,686.0390		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MODP <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARJB	ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41      Updated in August 2019 for job 100993 by crew S5101 for job 100993

  

Location Description	
TO REACH THE STATION FROM STATE HIGHWAY 67 AND STATE HIGHWAY 166 EAST, NORTHEAST OF POCAHONTAS, GO EAST ON HIGHWAY 166 2.57 MILES TO THE STATION ON THE LEFT, 10.50 METERS NORTH OF THE CENTER OF THE HIGHWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610002 2003" ON TO OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610002A	<b>Date Monumented</b> 1/28/2003	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 166	<b>Job Number:</b> 100091,100993
---------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	220,757.7780	0.0030			
<b>Easting (M)</b>	497,412.8684	0.0030			
<b>Elevation (M)*</b>	81.977				
<b>Northing (SFT)</b>	724,269.4767				
<b>Easting (SFT)</b>	1,631,928.7191				
<b>Elevation (SFT)*</b>	268.952				

  

<b>Convergence Angle</b>	0	37	52.4335478
<b>Scale Factor</b>	1.000017898		
<b>Elevation Adjust. Factor</b>	0.9999871354		
<b>Combined Adjust. Factor</b>	1.0000050331		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	19	5.7767988
<b>Longitude</b>	90	54	54.7996248
<b>Ellipsoid Height:</b>	-28.311		
<b>Grid Northing (Meters)</b>	220,757.7580		
<b>Grid Easting (Meters)</b>	497,412.8320		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MODP <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARJB	ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41      Updated in August 2019 for job 100993 by crew S5101 for job 100993

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36    19    5.7774360
<b>Longitude</b>	90    54    54.7981560
<b>Ellipsoid Height (M):</b>	53.535    0.0140
<b>Geoid Height (M):</b>	-28.332    0.0140

Location Description
TO REACH THE STATION FROM STATE HIGHWAY 67 AND STATE HIGHWAY 166 EAST, NORTH EAST OF POCAHONTAS, GO EAST ON HIGHWAY 166 FOR 3.25 MILES TO THE STATION ON THE RIGHT, 13.80 METERS SOUTH OFF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	610002
<b>Geodetic Azimuth</b>	245 09 58
<b>Grid Azimuth</b>	244 32 06

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610003	<b>Date Monumented</b> 10/18/2004	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 67	<b>Job Number:</b> 100608
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	214,669.8040		
<b>Easting (M)</b>	492,985.0100		
<b>Elevation (M)*</b>	85.033		
<b>Northing (SFT)</b>	704,295.8486		
<b>Easting (SFT)</b>	1,617,401.6536		
<b>Elevation (SFT)*</b>	278.980		

  

<b>Convergence Angle</b>	0	36	7.6564466
<b>Scale Factor</b>	1.000006177		
<b>Elevation Adjust. Factor</b>	0.9999866557		
<b>Combined Adjust. Factor</b>	0.9999928326		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER OF CONC SLAB	205	4.90	16.1
<b>MK # 2</b>	COMBINATION POLE	240	37.10	121.7
<b>MK # 3</b>	MANHOLE	210	37.10	121.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 610002,610002A	3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41
<b>Ref Mon # 2</b> BUTLER	
<b>Ref Mon # 3</b> Q 313, MEM2	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 15 49.8261816
<b>Longitude</b>	90 57 54.8587476
<b>Ellipsoid Height (M):</b>	56.813
<b>Geoid Height (M):</b>	-28.206

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 67, IN POCAHONTAS, GO NORTH ON STATE HIGHWAY 67 0.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 16.85 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "610003 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	610003A
<b>Geodetic Azimuth</b>	224 53 33
<b>Grid Azimuth</b>	224 17 25

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610003A	<b>Date Monumented</b> 10/18/2004	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 67	<b>Job Number:</b> 100608
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,266.0910	
<b>Easting (M)</b>	492,591.1790	
<b>Elevation (M)*</b>	88.973	
<b>Northing (SFT)</b>	702,971.3336	
<b>Easting (SFT)</b>	1,616,109.5598	
<b>Elevation (SFT)*</b>	291.906	

  

<b>Convergence Angle</b>	0	35	58.3776956
<b>Scale Factor</b>	1.000005433		
<b>Elevation Adjust. Factor</b>	0.9999860374		
<b>Combined Adjust. Factor</b>	0.9999914703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 67, IN POCAHONTAS, GO NORTH ON STATE HIGHWAY 67 0.4 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 11.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "610003A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    610002,610002A</p> <p><b>Ref Mon # 2</b>    BUTLER</p> <p><b>Ref Mon # 3</b>    Q 313, MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610004	<b>Date Monumented</b> 4/15/2013	<b>Monumented By</b> AHTD	<b>County</b> RANDOLPH	<b>Route</b> 67	<b>Job Number:</b> 100759
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 214,242.4635		<b>Geoid Datum:</b> GEOID96
<b>Easting (M)</b> 492,578.4508		<b>Latitude</b> 36 15 36.1011240
<b>Elevation (M)*</b> 87.985		<b>Longitude</b> 90 58 11.3241360
<b>Northing (SFT)</b> 702,893.8157		<b>Ellipsoid Height (M):</b> 59.786
<b>Easting (SFT)</b> 1,616,067.8007		<b>Geoid Height (M):</b> -28.199
<b>Elevation (SFT)*</b> 288.663		

  

<b>Convergence Angle</b> 0 35 58.0752514	<b>Location Description</b>  TO REACH THIS MARK FROM THE INTERSECTION OF HWY. 62 AND HWY. 67, IN POCAHONTAS. GO NORTH ON HWY. 67 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "610004 2013" ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. UNDER THE SURFACE.
<b>Scale Factor</b> 1.000005390	
<b>Elevation Adjust. Factor</b> 0.9999861925	
<b>Combined Adjust. Factor</b> 0.9999915824	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST CORNER OF POCAHONTAS WATER AND SEWER BUILDING	303	13.72	45.0	<b>AZ Mark Station</b> 610003
MK # 2	SOUTHEAST CORNER OF CINDER BLOCK BUILDING	5	15.24	50.0	<b>Geodetic Azimuth</b>
MK # 3	SOUTH END OF RAILING	202	12.19	40.0	<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Elevation was established by S5102 from TBM 908 from job 100608 during job 100759 in April 2013.
<b>Ref Mon # 2</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<b>Ref Mon # 3</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610005	<b>Date Monumented</b> 6/19/2017	<b>Monumented By</b> CLS	<b>County</b> RANDOLPH	<b>Route</b> North Park	<b>Job Number:</b> 100877
--------------------------	-------------------------------------	-----------------------------	---------------------------	----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD83 (2011)		
<b>Northing (M)</b>	215,827.9268	0.0020	
<b>Easting (M)</b>	491,309.0404	0.0020	
<b>Elevation (M)*</b>	121.786	0.0047	
<b>Northing (SFT)</b>	708,095.4565		
<b>Easting (SFT)</b>	1,611,903.0767		
<b>Elevation (SFT)*</b>	399.558		

  

<b>Convergence Angle</b>	0	35	28.8678628
<b>Scale Factor</b>	1.000008387		
<b>Elevation Adjust. Factor</b>	0.9999808882		
<b>Combined Adjust. Factor</b>	0.9999892751		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST. 0.48 KM (0.3 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24 FT. WEST OF THE CENTERLINE OF NORTH PARK ST. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610005 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					610005A	
MK # 2					2 58 44	
MK # 3					2 23 15	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MODP <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARBT	BASED ON NGS POINT H 41

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610005A	<b>Date Monumented</b> 6/19/2017	<b>Monumented By</b> CLS	<b>County</b> RANDOLPH	<b>Route</b> North Park	<b>Job Number:</b> 100877
---------------------------	-------------------------------------	-----------------------------	---------------------------	----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD83 (2011)
<b>Northing (M)</b>	216,220.5381 0.0020
<b>Easting (M)</b>	491,325.4105 0.0020
<b>Elevation (M)*</b>	119.750 0.0148
<b>Northing (SFT)</b>	709,383.5487
<b>Easting (SFT)</b>	1,611,956.7843
<b>Elevation (SFT)*</b>	392.881

  

<b>Convergence Angle</b>	0 35 29.3439983
<b>Scale Factor</b>	1.000009133
<b>Elevation Adjust. Factor</b>	0.9999812076
<b>Combined Adjust. Factor</b>	0.9999903405

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST FOR 280 FT. TO THE STATION ON THE LEFT. THE STATION IS 21.5 FT. EAST OF THE CENTERLINE OF NORTH PARK ST. THE MOUNUMENT IS A 2.5 IN. CAP STAMPED "610005A 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    MODP Ref Mon # 2    ARPG Ref Mon # 3    ARBT	<b>Comments</b> BASED ON NGS POINT H 41
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610006	<b>Date Monumented</b> 7/19/2017	<b>Monumented By</b> CLS	<b>County</b> RANDOLPH	<b>Route</b> ntry Club	<b>Job Number:</b> 100877
--------------------------	-------------------------------------	-----------------------------	---------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD83 (2011)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 217,326.2297	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID12B
<b>Easting (M)</b> 490,224.0142	<b>0.0020</b>	<b>Latitude</b> 36 17 16.9305000
<b>Elevation (M)*</b> 134.939	<b>0.0052</b>	<b>Longitude</b> 90 59 44.3757840
<b>Northing (SFT)</b> 713,011.1386		<b>Ellipsoid Height (M):</b> 106.572 0.0110
<b>Easting (SFT)</b> 1,608,343.2866		<b>Geoid Height (M):</b> -28.348
<b>Elevation (SFT)*</b> 442.713		

  

<b>Convergence Angle</b> 0 35 3.9285786	<b>Scale Factor</b> 1.000011275	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND COUNTRY CLUB RD., GO NORTH ON COUNTRY CLUB RD. 328 FT. TO THE STATION ON THE RIGHT. THE STATION IS 40 FT. EAST OF THE CENTERLINE OF COUNTRY CLUB RD. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610006 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.
<b>Elevation Adjust. Factor</b> 0.9999788241	<b>Combined Adjust. Factor</b> 0.9999900988	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> BASED ON NGS POINT H 41
<b>Ref Mon # 1</b> MODP	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610006A	<b>Date Monumented</b> 7/19/2017	<b>Monumented By</b> CLS	<b>County</b> RANDOLPH	<b>Route</b> ntry Club	<b>Job Number:</b> 100877
---------------------------	-------------------------------------	-----------------------------	---------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD83 (2011)	
<b>Northing (M)</b>	217,682.0504	0.0020
<b>Easting (M)</b>	490,138.2172	0.0020
<b>Elevation (M)*</b>	127.891	0.0052
<b>Northing (SFT)</b>	714,178.5270	
<b>Easting (SFT)</b>	1,608,061.8009	
<b>Elevation (SFT)*</b>	419.589	

  

<b>Convergence Angle</b>	0	35	2.0125780
<b>Scale Factor</b>	1.000011966		
<b>Elevation Adjust. Factor</b>	0.9999799301		
<b>Combined Adjust. Factor</b>	0.9999918959		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND COUNTRY CLUB RD., GO NORTH ON COUNTRY CLUB RD. 0.47 KM (0.29 MI.) TO THE STATION ON THE LEFT. THE STATION IS 12 FT. WEST OF THE CENTERLINE OF COUNTRY CLUB RD. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610006A 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    MODP</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    ARBT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>BASED ON NGS POINT H 41</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610007	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	203,758.9611	0.0020			
<b>Easting (M)</b>	497,334.1928	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	668,499.1915				
<b>Easting (SFT)</b>	1,631,670.5975				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	46.2416668
<b>Scale Factor</b>	0.999987226		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/GUY	245	16.20	53.1
<b>MK # 2</b>	24" CPP	310	6.40	21.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	36 9 54.3455856
<b>Longitude</b>	90 55 5.4389712
<b>Ellipsoid Height (M):</b>	54.895 0.0080
<b>Geoid Height (M):</b>	-28.179 0.0080

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 6.28 MILES TO GUM STUMP ROAD AND TURN RIGHT HERE AND GO 2.25 MILES TO THE MARK ON THE RIGHT, 14.8" WEST OF A FIELD ROAD AND 45.4" SOUTHEAST OF THE C/L OF GUM STUMP ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610007A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	203,750.1192	0.0020			
<b>Easting (M)</b>	496,922.5759	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	668,470.1827				
<b>Easting (SFT)</b>	1,630,320.1511				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	36.6564642
<b>Scale Factor</b>	0.999987219		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	238	5.43	17.8
<b>MK # 2</b>	POWER POLE	115	7.41	24.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610008	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,985.6201	0.0010			
<b>Easting (M)</b>	497,329.8376	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	679,085.3219				
<b>Easting (SFT)</b>	1,631,656.3089				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	46.9659231
<b>Scale Factor</b>	0.999992497		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	273	52.10	170.9
<b>MK # 2</b>	GUY POLE	350	49.50	162.4
<b>MK # 3</b>	WATERWELL	104	30.18	99.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT.            CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON            ARDOT CORS SITES ARJB &amp; ARPG         </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Comments			
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 8.28 MILES TO LONG ROAD ROAD AND TURN RIGHT HERE AND GO 2.28 MILES TO THE MARK ON THE LEFT, 31.8' EAST OF THE C/L OF A FIELD ROAD AND 24.4" SOUTH OF THE C/L OF LONG ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610008" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	610008A
<b>Geodetic Azimuth</b>	269° 12 ' 11"
<b>Grid Azimuth</b>	268° 34 ' 24"

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610008A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,976.3619	0.0020			
<b>Easting (M)</b>	496,958.0716	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	679,054.9473				
<b>Easting (SFT)</b>	1,630,436.6066				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	37	38.3052370
<b>Scale Factor</b>	0.999992488		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAILBOX 1952 LONG ROAD	283	27.07	88.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610009	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	210,229.0593	0.0020	
<b>Easting (M)</b>	498,283.8051	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	689,726.5054		
<b>Easting (SFT)</b>	1,634,786.1172		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	10.0222108
<b>Scale Factor</b>	0.999998037		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 304 IN POCAHONTAS, AR. GO EAST ON STATE HWY 304 FOR 2.81 MILES TO ATORRD ROAD ON THE RIGHT. GO SOUTH ON ATORRD ROAD FOR 0.99 MILES TO MARTIN ROAD. GO EAST ON MARTIN ROAD FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE POINT IS 19.5' SOUTH OF THE CL OF MARTIN ROAD.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS LINE CHECK VALVE	308	17.43	57.2
MK # 2	GRAIN SILO	120	12.19	40.0
MK # 3	WATER WELL	192	12.62	41.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610009A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	210,241.3549	0.0020	
<b>Easting (M)</b>	497,834.3152	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	689,766.8452		
<b>Easting (SFT)</b>	1,633,311.4158		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	37	59.5530730
<b>Scale Factor</b>	0.999998067		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	250	6.09	20.0
MK # 2	GAS LINE MARKER	263	19.93	65.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610010	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	213,949.7798	0.0010	
<b>Easting (M)</b>	499,035.3934	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	701,933.5692		
<b>Easting (SFT)</b>	1,637,251.9532		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	28.5030585
<b>Scale Factor</b>	1.000004719		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT. GO SOUTH ON SKAGGS FERRY ROAD FOR 4.80 MILES TO A GATE AND A FIELD ROAD TO THE RIGHT. GO THROUGH THE GATE AND NORTH THE FIELD ROAD FOR 0.30 MILES TO A FIELD ROAD ON THE LEFT. GO WEST ON THE FIELD ROAD FOR 0.74 MILES TO THE STATION ON THE RIGHT. THE POINT IS 14.2' NORTH OF THE CL OF FIELD ROAD.			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	610010A
MK # 2					<b>Geodetic Azimuth</b>	269° 36 ' 55"
MK # 3					<b>Grid Azimuth</b>	268° 58 ' 27"

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610010A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	213,942.5605	0.0020	
<b>Easting (M)</b>	498,632.2684	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	701,909.8839		
<b>Easting (SFT)</b>	1,635,929.3672		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	38	19.1051679
<b>Scale Factor</b>	1.000004714		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER PUMP ON BANK OF CURRENT RIVE	0	20.73	68.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	610010
<b>Geodetic Azimuth</b>	89° 36 ' 46"
<b>Grid Azimuth</b>	88° 58 ' 27"

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610011	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	215,968.4607	0.0020	
<b>Easting (M)</b>	501,497.3747	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	708,556.5248		
<b>Easting (SFT)</b>	1,645,329.3035		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	39	26.4264017
<b>Scale Factor</b>	1.000008443		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	280	3.35	11.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610011A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	215,961.2392	0.0020			
<b>Easting (M)</b>	501,898.3059	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	708,532.8323				
<b>Easting (SFT)</b>	1,646,644.6919				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	39	35.7714082
<b>Scale Factor</b>	1.000008421		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION GATE	16	15.48	50.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610012	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	217,951.0217	0.0010	
<b>Easting (M)</b>	503,925.8827	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	715,060.9770		
<b>Easting (SFT)</b>	1,653,296.8335		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	40	23.5853745
<b>Scale Factor</b>	1.000012195		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	175	18.01	59.1
MK # 2	POWER POLE WITH GY	234	17.31	56.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610012A	<b>Date Monumented</b> 11/3/2020	<b>Monumented By</b> AHTD	<b>County</b> Randolph	<b>Route</b> I-57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	217,562.7089	0.0020	
<b>Easting (M)</b>	503,923.2227	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	713,786.9874		
<b>Easting (SFT)</b>	1,653,288.1065		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	40	23.4169580
<b>Scale Factor</b>	1.000011442		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	6.10	20.0
MK # 2	GAS LINE MARKER	180	30.50	100.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610013	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	219,986.7603	0.0020			
<b>Easting (M)</b>	506,815.6259	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	721,739.8961				
<b>Easting (SFT)</b>	1,662,777.5993				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	41	31.5420897
<b>Scale Factor</b>	1.000016135		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/GUY	130	17.71	58.1
<b>MK # 2</b>	POWWER POLE W/GUY	31	19.05	62.5
<b>MK # 3</b>	GAS PIP	340	16.31	53.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610013A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> I 57	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	219,962.6765	0.0020			
<b>Easting (M)</b>	507,265.8390	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	721,660.8812				
<b>Easting (SFT)</b>	1,664,254.6735				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	41	42.0357518
<b>Scale Factor</b>	1.000016076		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER PUMP	181	13.59	44.6
MK # 2	WATER WELL	135	5.33	17.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610014	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> GUTHRIE RD	<b>Job Number:</b> 100512
--------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	221,514.1537	0.0020	
<b>Easting (M)</b>	509,708.7079	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	726,751.0193		
<b>Easting (SFT)</b>	1,672,269.3192		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	42	39.4602871
<b>Scale Factor</b>	1.000019137		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
610014 TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 IN REYNO, GO SOUTH ON US-67 0.5 TO DUCK LEVEE RD, THEN GO SOUTH 2.0 MILES TO LAWNBITD RD, THEN GO WEST 1.0 MILES TO GUTHRIE RD, THEN GO SOUTH 0.1 MILES TO STATION ON THE RIGHT. 46' WEST OF C/L GUTHRIE RD. 37' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "610014 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	610014A
MK # 2					<b>Geodetic Azimuth</b>	178° 37 ' 12"
MK # 3					<b>Grid Azimuth</b>	177° 54 ' 32"

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610014A	<b>Date Monumented</b> 11/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> RANDOLPH	<b>Route</b> GUTHRIE RD	<b>Job Number:</b> 100512
---------------------------	-------------------------------------	-------------------------------	---------------------------	----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	221,147.6188	0.0020	
<b>Easting (M)</b>	509,722.0909	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	725,548.4793		
<b>Easting (SFT)</b>	1,672,313.2266		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	42	39.6663646
<b>Scale Factor</b>	1.000018394		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	330	32.31	106.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620001A	<b>Date Monumented</b> 3/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> R60085
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 612,739.3199		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 354,728.2410		<b>Latitude</b> 34 35 1.4265672
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 29 36.4383744
<b>Northing (SFT)</b> 2,010,295.5854		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,163,804.2373		<b>Geoid Height (M):</b> -27.318
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 16 34.2560139	<b>Location Description</b>  THE STATION IS 0.4 MILES SOUTH OF AHTD GPS STATION 90620001. AROUND CURVE, 240 FEET SOUTH OF HILL STREET, .55 FEET WEST OF A FENCE, 35.5 FEET EAST OF THE CENTERLINE OF HWY. 183 AND SOUTH OF A WIRE GATE GOING INTO A FIELD ACROSS HWY. 183 FROM CONVEYER BUILDING MATERIALS CO..
<b>Scale Factor</b> 0.999964320	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 10" CEDAR	170	21.86	71.7
<b>MK # 2</b>	NBC IN POWER POLE	277	26.71	87.6
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> Old point number 90620001A. Mark has been disturbed as per MSK 05/15/07.
<b>Ref Mon # 1</b> PERKINS	
<b>Ref Mon # 2</b> GOOSEPOND 2	
<b>Ref Mon # 3</b> PAGIS 1006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620002	<b>Date Monumented</b> 3/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> R60085
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 615,652.4189		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 354,647.1070		<b>Latitude</b> 34 36 35.9516916
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 29 40.1741304
<b>Northing (SFT)</b> 2,019,852.9777		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,163,538.0502		<b>Geoid Height (M):</b> -27.382
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 16 36.3468817	<b>Location Description</b>  THE STATION IS NEAR THE FRONT ENTRANCE OF GRACE BAPTIST CHURCH, 35 FEET NORTH OF PRICKETT ROAD ON A GRASSY AREA BETWEEN THE CHURCH AND THE HANDICAPPED PARKING AREA AND 230 FEET WEST OF HWY. 138.
<b>Scale Factor</b> 0.999968813	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b> 
<b>Latitude</b> 
<b>Longitude</b> 
<b>Ellipsoid Height:</b> 
<b>Grid Northing (Meters)</b> 
<b>Grid Easting (Meters)</b> 

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT AT JCT OF SIDEWALKS	355	4.40	14.4
MK # 2	PUNCH POINT AT JCT OF SIDEWALKS	115	6.51	21.4
MK # 3	NBC IN COMBINATION POLE	226	9.01	29.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PERKINS	Old point number 90620002 *****REPORTED DESTROYED 2012*****
<b>Ref Mon # 2</b> GOOSEPOND 2	
<b>Ref Mon # 3</b> PAGIS 1006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620004	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 30	<b>Job Number:</b> 60209
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	606,966.4659	
<b>Easting (M)</b>	337,736.0420	
<b>Elevation (M)*</b>	135.706	
<b>Northing (SFT)</b>	1,991,355.8135	
<b>Easting (SFT)</b>	1,108,055.6645	
<b>Elevation (SFT)*</b>	445.229	

  

<b>Convergence Angle</b>	0	22	46.5883883
<b>Scale Factor</b>	0.999955903		
<b>Elevation Adjust. Factor</b>	0.9999787038		
<b>Combined Adjust. Factor</b>	0.9999346077		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.322 KM (0.20 MILES) TO THE STATION ON THE LEFT, THE STATION IS SET IN THE ASPHALT MEDIAN CROSSOVER, 6.341 METERS FROM THE INSIDE EDGE OF THE WESTBOUND CONCRETE LANE, 5.731 METERS FROM THE INSIDE EDGE OF THE EASTBOUND CONCRETE LANE AND 4.00 METERS SOUTH OF A WITNESS POST.</p>			

  

Location Reference Marks							
Description			Azimuth	Distance		AZ Mark Station	
				Meters	Feet		
MK # 1	NBC IN 12" GUM		80	30.71	100.8	9362004A AZ. MK.	
MK # 2	NBC IN DOUBLE 6" GUM		103	30.31	99.4		
MK # 3	NBC IN 16" PINE		119	34.43	113.0		

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ADAMS 2	
Ref Mon # 2	MALEPORT	
Ref Mon # 3	SALIPOINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620004A	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 30	<b>Job Number:</b> 9,061256,061330,BB0602,CA
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	606,705.7436				
<b>Easting (M)</b>	337,594.4271				
<b>Elevation (M)*</b>	135.803				
<b>Northing (SFT)</b>	1,990,500.4271				
<b>Easting (SFT)</b>	1,107,591.0496				
<b>Elevation (SFT)*</b>	445.548				

  

<b>Convergence Angle</b>	0	22	49.6585070
<b>Scale Factor</b>	0.999955548		
<b>Elevation Adjust. Factor</b>	0.9999786885		
<b>Combined Adjust. Factor</b>	0.9999342374		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	31	42.4328808
<b>Longitude</b>	92	40	47.1702504
<b>Ellipsoid Height:</b>	109.477		
<b>Grid Northing (Meters)</b>	606,705.7449		
<b>Grid Easting (Meters)</b>	337,594.4320		

  

Location Description				
FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE LEFT, THE STATION IS IN THE GRASS MEDIAN, 10.502 METERS EAST OF THE EDGE OF THE WESTBOUND CONCRETE LANES, 7.765 METERS WEST OF THE EDGE OF THE EASTBOUND LANES CONCRETE AND 0.610 METERS NORTH OF A WITNESS POST.				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 6" PINE	295		28.56	93.7
MK # 2	NBC IN DOUBLE 12" PINE	314		28.58	93.8
MK # 3	NBC IN 16" GUM	349		42.74	140.2

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR, AB8283 Ref Mon # 2    ARCM Ref Mon # 3    ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     PREVIOUS SUPERCEDED INFORMATION:                      HORIZONTAL DATUM: NAD 83 (1986)                      LATITUDE: 34-31-42.4439400                      LONGITUDE: 92-40-47.1613692                      ELLIPSOID HEIGHT: 108.385                      NORTHING (METERS): 606,706.0841                      EASTING (METERS): 337,594.6608                 </td> </tr> </table> <div style="text-align: right; margin-top: 10px;">                     GRID GRID                 </div>	Comments	PREVIOUS SUPERCEDED INFORMATION: HORIZONTAL DATUM: NAD 83 (1986) LATITUDE: 34-31-42.4439400 LONGITUDE: 92-40-47.1613692 ELLIPSOID HEIGHT: 108.385 NORTHING (METERS): 606,706.0841 EASTING (METERS): 337,594.6608
Comments			
PREVIOUS SUPERCEDED INFORMATION: HORIZONTAL DATUM: NAD 83 (1986) LATITUDE: 34-31-42.4439400 LONGITUDE: 92-40-47.1613692 ELLIPSOID HEIGHT: 108.385 NORTHING (METERS): 606,706.0841 EASTING (METERS): 337,594.6608			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620004A-1	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> 30	<b>Job Number:</b> 061256
-----------------------------	------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	606,706.0839	
<b>Easting (M)</b>	337,594.6610	
<b>Elevation (M)*</b>	135.819	
<b>Northing (SFT)</b>	1,990,501.5436	
<b>Easting (SFT)</b>	1,107,591.8170	
<b>Elevation (SFT)*</b>	445.600	

  

<b>Convergence Angle</b>	0	22	49.6534235
<b>Scale Factor</b>	0.999955549		
<b>Elevation Adjust. Factor</b>	0.9999786860		
<b>Combined Adjust. Factor</b>	0.9999342360		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 6" PINE	295	28.56	93.7
<b>MK # 2</b>	NBC IN DOUBLE 12" PINE	314	28.58	93.8
<b>MK # 3</b>	NBC IN 16" GUM	349	42.74	140.2

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> Saliport, Saliport Az. <b>Ref Mon # 2</b> ARCM, ARHP <b>Ref Mon # 3</b> CSAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.</td> </tr> </table>	Comments	Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
Comments			
Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.			

  

Location Description	
FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE LEFT, THE STATION IS IN THE GRASS MEDIAN, 10.502 METERS EAST OF THE EDGE OF THE WESTBOUND CONCRETE LANES, 7.765 METERS WEST OF THE EDGE OF THE EASTBOUND LANES CONCRETE AND 0.610 METERS NORTH OF A WITNESS POST.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620005	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 30	<b>Job Number:</b> 60209
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,303.6549	
<b>Easting (M)</b>	341,677.5490	
<b>Elevation (M)*</b>	109.746	
<b>Northing (SFT)</b>	1,995,742.9078	
<b>Easting (SFT)</b>	1,120,987.0920	
<b>Elevation (SFT)*</b>	360.058	

  

<b>Convergence Angle</b>	0	21	20.2634486
<b>Scale Factor</b>	0.999957781		
<b>Elevation Adjust. Factor</b>	0.9999827776		
<b>Combined Adjust. Factor</b>	0.9999405593		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 FOR 4.15 KM (2.58 MILES) TO THE STATION ON THE RIGHT, THE STATION IS CLOSE TO A DESERTED GAS STATION, 3.825 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 13.90 METERS NORTH OF A WITNESS POST.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	145	14.20	46.6		
MK # 2	"X" CUT IN CONCRETE GUARD RAIL POST	170	13.44	44.1		
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	190	15.11	49.6		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ADAMS 2 <b>Ref Mon # 2</b> MALEPORT <b>Ref Mon # 3</b> SALIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620005A	<b>Date Monumented</b> 9/1/1993	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 30	<b>Job Number:</b> 60209
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	608,124.7478	
<b>Easting (M)</b>	341,091.0660	
<b>Elevation (M)*</b>	113.995	
<b>Northing (SFT)</b>	1,995,155.9434	
<b>Easting (SFT)</b>	1,119,062.9390	
<b>Elevation (SFT)*</b>	373.999	

  

<b>Convergence Angle</b>	0	21	33.1126556
<b>Scale Factor</b>	0.999957527		
<b>Elevation Adjust. Factor</b>	0.9999821108		
<b>Combined Adjust. Factor</b>	0.9999396385		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 3.54 KM (2.20 MILES) TO THE STATION ON THE RIGHT, THE STATION IS 17.663 METERS NORTH OF A SERVICE ROAD, 4.039 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 1.50 METERS NORTH OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ADAMS 2</p> <p>Ref Mon # 2    MALEPORT</p> <p>Ref Mon # 3    SALIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620011	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> N/A	<b>Job Number:</b> R60093
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	597,032.6999	
<b>Easting (M)</b>	343,279.7390	
<b>Elevation (M)*</b>	78.516	
<b>Northing (SFT)</b>	1,958,764.7829	
<b>Easting (SFT)</b>	1,126,243.6104	
<b>Elevation (SFT)*</b>	257.598	

  

<b>Convergence Angle</b>	0	20	43.6022104
<b>Scale Factor</b>	0.999943645		
<b>Elevation Adjust. Factor</b>	0.9999876784		
<b>Combined Adjust. Factor</b>	0.9999313241		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 &amp; 291 IN TRASKWOODGO EASTERLY ON HWY-291 FOR 4.02 KM. ( 2.5 MI. ) TO A JUNCTION WITH " HOLY CIRCLE ROAD "ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON " HOLY CIRCLE ROAD " FOR 0.08 KM.( 0.05 MI. ) TO THE STATION ON THE RIGHT. 5.70 METERS NORTHWEST OF THE CENTER OF " HOLY CIRCLE ROAD ", 18.0 METERS NORTHEAST OF A FIELD DRAINAGE DITCH AND 0.54 METERSNORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED " 620011 " SET ON TOP OF AN IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    <input type="text" value="SALIPORT"/></p> <p><b>Ref Mon # 2</b>    <input type="text" value="MALEPORT"/></p> <p><b>Ref Mon # 3</b>    <input type="text" value="93620004"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: RX0026</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620011A	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> N/A	<b>Job Number:</b> R60093
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	596,617.8848	
<b>Easting (M)</b>	343,152.0360	
<b>Elevation (M)*</b>	77.458	
<b>Northing (SFT)</b>	1,957,403.8437	
<b>Easting (SFT)</b>	1,125,824.6381	
<b>Elevation (SFT)*</b>	254.127	

  

<b>Convergence Angle</b>	0	20	46.3471003
<b>Scale Factor</b>	0.999943184		
<b>Elevation Adjust. Factor</b>	0.9999878445		
<b>Combined Adjust. Factor</b>	0.9999310292		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 &amp; 291 IN TRASKWOOD, GO EASTERLY ON HWY-291 FOR 4.02 KM. ( 2.50 MI. ) TO THE JUNCTION WITH "HOLY CIRCLE ROAD" ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON "HOLY CIRCLE ROAD" FOR 0.51 KM. ( 2.5 MI. ) TO THE STATION ON THE LEFT. 5.70 METERS SOUTHEAST OF THE CENTER OF THE GRAVELED "HOLY CIRCLE ROAD" AND 1.15 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "620011A" SET ON TOP OF AN</p> <p>IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="SALIPOINT"/> <b>Ref Mon # 2</b> <input type="text" value="MALEPORT"/> <b>Ref Mon # 3</b> <input type="text" value="93620004"/>	Cross Reference Job: RX0026

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620012	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 190	<b>Job Number:</b> 001730
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	600,144.4509				
<b>Easting (M)</b>	348,034.6400				
<b>Elevation (M)*</b>	116.708				
<b>Northing (SFT)</b>	1,968,973.9193				
<b>Easting (SFT)</b>	1,141,843.6481				
<b>Elevation (SFT)*</b>	382.899				

  

<b>Convergence Angle</b>	0	18	59.7293282
<b>Scale Factor</b>	0.999947270		
<b>Elevation Adjust. Factor</b>	0.9999816850		
<b>Combined Adjust. Factor</b>	0.9999289560		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.0 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS NORTHWEST OF THE CENTERLINE OF HWY. 190, 7.00 METERS NORTHEAST OF A GRAVEL DRIVEWAY AND 0.44 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: SALIPOINT</p> <p>Ref Mon # 2: MALEPOINT</p> <p>Ref Mon # 3: 93620004</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: RX0026</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620012A	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> N/A	<b>Job Number:</b> 001730
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	600,263.2219				
<b>Easting (M)</b>	347,925.1190				
<b>Elevation (M)*</b>	113.608				
<b>Northing (SFT)</b>	1,969,363.5872				
<b>Easting (SFT)</b>	1,141,484.3279				
<b>Elevation (SFT)*</b>	372.729				

  

<b>Convergence Angle</b>	0	19	2.1457695
<b>Scale Factor</b>	0.999947411		
<b>Elevation Adjust. Factor</b>	0.9999821715		
<b>Combined Adjust. Factor</b>	0.9999295835		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO A GRAVEL DRIVEWAY ON THE RIGHT LEADING TO A GRAY BRICK HOUSE, GO RIGHT (NORTHWEST) ON THIS DRIVEWAY FOR 0.16 KM (0.10 MILES) PASSING BY A TOWER AND FENCED IN AREA TO A POWER LINE RIGHT-OF-WAY AND A POWER POLE WITH AN AHTD WITNESS POST DRIVEN IN FRONT OF IT AND THE STATION. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.76 METERS SOUTHEAST OF THE POWER POLE AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 620012</p> <p>Ref Mon # 2: NONE</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: RX0026</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620013	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 35	<b>Job Number:</b> 001730
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	603,058.2719		
<b>Easting (M)</b>	350,450.3920		
<b>Elevation (M)*</b>	114.090		
<b>Northing (SFT)</b>	1,978,533.6804		
<b>Easting (SFT)</b>	1,149,769.3278		
<b>Elevation (SFT)*</b>	374.310		

  

<b>Convergence Angle</b>	0	18	7.0837055
<b>Scale Factor</b>	0.999950869		
<b>Elevation Adjust. Factor</b>	0.9999820959		
<b>Combined Adjust. Factor</b>	0.9999329658		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	31.00	101.7
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 SALIPOINT	Cross Reference Job: RX0026
Ref Mon # 2 MALEPOINT	
Ref Mon # 3 93620004	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 29 46.5448272
<b>Longitude</b>	92 32 22.2937188
<b>Ellipsoid Height (M):</b>	86.904
<b>Geoid Height (M):</b>	-27.186

Location Description
<p>FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.24 KM (0.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 35, 9.50 METERS SOUTH OF THE CENTER OF JENSEN STREET, 25.95 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF HUCKABY'S COUNTRY STORE AND 2.52 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "6200013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620013A	<b>Date Monumented</b> 3/22/1994	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 35	<b>Job Number:</b> 001730
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	602,549.7019	
<b>Easting (M)</b>	350,448.3130	
<b>Elevation (M)*</b>	107.906	
<b>Northing (SFT)</b>	1,976,865.1470	
<b>Easting (SFT)</b>	1,149,762.5069	
<b>Elevation (SFT)*</b>	354.022	

  

<b>Convergence Angle</b>	0	18	7.0705120
<b>Scale Factor</b>	0.999950229		
<b>Elevation Adjust. Factor</b>	0.9999830663		
<b>Combined Adjust. Factor</b>	0.9999332962		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	170	11.80	38.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	185	11.90	39.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="SALIPORT"/>	Cross Reference Job: RX0026
<b>Ref Mon # 2</b> <input type="text" value="MALEPORT"/>	
<b>Ref Mon # 3</b> <input type="text" value="93620004"/>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 29 30.0395112
<b>Longitude</b>	92 32 22.2701460
<b>Ellipsoid Height (M):</b>	80.729
<b>Geoid Height (M):</b>	-27.177

  

Location Description
<p>FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.75 KM (0.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTH OF THE CENTER OF AN OLD DRIVEWAY, 12.80 METERS EAST OF THE CENTERLINE OF HWY. 35 AND 0.96 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620014	<b>Date Monumented</b> 12/6/2001	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 167	<b>Job Number:</b> 061035
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	603,010.1029	
<b>Easting (M)</b>	368,241.4150	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,978,375.6459	
<b>Easting (SFT)</b>	1,208,138.7090	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	36.7613488
<b>Scale Factor</b>	0.999950906		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					N/A
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SALIPORT <b>Ref Mon # 2</b> PAGIS 1001 <b>Ref Mon # 3</b> 270009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620015	<b>Date Monumented</b> 12/6/2001	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 167	<b>Job Number:</b> 061035,001847
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	606,342.2469	
<b>Easting (M)</b>	369,042.9020	
<b>Elevation (M)*</b>	90.162	
<b>Northing (SFT)</b>	1,989,307.8550	
<b>Easting (SFT)</b>	1,210,768.2543	
<b>Elevation (SFT)*</b>	295.805	

  

<b>Convergence Angle</b>	0	11	19.4182074
<b>Scale Factor</b>	0.999955268		
<b>Elevation Adjust. Factor</b>	0.9999858509		
<b>Combined Adjust. Factor</b>	0.9999411195		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 3.589 KM (2.23 MI) TO THE JUNCTION OF STATE HIGHWAY 367 AND THE STATION ON THE LEFT. THE STATION IS 23.50 METERS NORTH WEST OF THE CENTER OF U.S. HIGHWAY 167, 14.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 367, AND 0.50 METERS SOUTH EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.638 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	58	31.40	103.0
MK # 2	POWER POLE	253	33.00	108.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: SALIPORT</p> <p>Ref Mon # 2: PAGIS 1001</p> <p>Ref Mon # 3: 270009</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620016	<b>Date Monumented</b> 12/6/2001	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 530	<b>Job Number:</b> 061035
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,406.8060	
<b>Easting (M)</b>	375,746.7660	
<b>Elevation (M)*</b>	79.477	
<b>Northing (SFT)</b>	2,002,642.9960	
<b>Easting (SFT)</b>	1,232,762.5148	
<b>Elevation (SFT)*</b>	260.751	

  

<b>Convergence Angle</b>	0	8	52.5189499
<b>Scale Factor</b>	0.999960986		
<b>Elevation Adjust. Factor</b>	0.9999875276		
<b>Combined Adjust. Factor</b>	0.9999485141		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 11.426 KM (7.10 MI) TO THE JUNCTION OF U.S. HIGHWAY 167 AND I 530, TURN RIGHT (SOUTH) AND GO 0.322 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH EAST OF THE CENTER OF I 530 SOUTH BOUND LANES AND 0.50 METERS SOUTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 839.690 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input style="width: 150px;" type="text" value="SALIPOINT"/></p> <p>Ref Mon # 2    <input style="width: 150px;" type="text" value="PAGIS 1001"/></p> <p>Ref Mon # 3    <input style="width: 150px;" type="text" value="270009"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620016A	<b>Date Monumented</b> 12/6/2001	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 530	<b>Job Number:</b> 061035
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,702.2579	
<b>Easting (M)</b>	376,203.5200	
<b>Elevation (M)*</b>	74.387	
<b>Northing (SFT)</b>	2,000,331.4911	
<b>Easting (SFT)</b>	1,234,261.0485	
<b>Elevation (SFT)*</b>	244.051	

  

<b>Convergence Angle</b>	0	8	42.4510377
<b>Scale Factor</b>	0.999959972		
<b>Elevation Adjust. Factor</b>	0.9999883264		
<b>Combined Adjust. Factor</b>	0.9999482989		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 11.426 KM (7.10 MI) TO THE JUNCTION OF U.S. HIGHWAY 167 AND I 530, TURN RIGHT (SOUTH) ON I 530 AND GO 1.159 KM (0.72 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS NORTH EAST OF THE CENTER OF THE SOUTH BOUND LANES OF I 530 AND 0.50 METERS SOUTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 839.690 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	152	18.25	59.9
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: SALIPORT</p> <p>Ref Mon # 2: PAGIS 1001</p> <p>Ref Mon # 3: 270009</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620017	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> 60209
--------------------------	------------------------	----------------------	-------------------------	----------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 608,157.0477		<b>Geoid Datum:</b>
<b>Easting (M)</b> 340,947.7100		<b>Latitude</b> 34 32 30.2353116
<b>Elevation (M)*</b>		<b>Longitude</b> 92 38 36.0361104
<b>Northing (SFT)</b> 1,995,261.9140		<b>Ellipsoid Height (M):</b> 91.409
<b>Easting (SFT)</b> 1,118,592.6119		<b>Geoid Height (M):</b> -26.327
<b>Elevation (SFT)*</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> 0 21 36.2638414		
<b>Scale Factor</b> 0.999957570		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b>
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620017A	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> I 30	<b>Job Number:</b> 061256
---------------------------	------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	607,879.5009		
<b>Easting (M)</b>	340,389.3290		
<b>Elevation (M)*</b>	120.824		
<b>Northing (SFT)</b>	1,994,351.3292		
<b>Easting (SFT)</b>	1,116,760.6569		
<b>Elevation (SFT)*</b>	396.402		

  

<b>Convergence Angle</b>	0	21	48.4819538
<b>Scale Factor</b>	0.999957180		
<b>Elevation Adjust. Factor</b>	0.9999810392		
<b>Combined Adjust. Factor</b>	0.9999382200		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	32	21.1248096
<b>Longitude</b>	92	38	57.8567508
<b>Ellipsoid Height:</b>	94.476		
<b>Grid Northing (Meters)</b>	607,879.8427		
<b>Grid Easting (Meters)</b>	340,389.5728		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	240	11.20	36.7
<b>MK # 2</b>	WEST END OF SIGN	155	7.35	24.1
<b>MK # 3</b>	GAS METER	243	8.00	26.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Saliport, Saliport Az.	Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
<b>Ref Mon # 2</b> ARHP, ARCM	
<b>Ref Mon # 3</b> CSAL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620017A-1	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> 60209
-----------------------------	------------------------	----------------------	-------------------------	----------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> NONE																												
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NONE																												
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>																												
<b>Easting (M)</b>	#Error	<b>Latitude</b>																												
<b>Elevation (M)*</b>		<b>Longitude</b>																												
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>																												
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>																												
<b>Elevation (SFT)*</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>																												
<b>Convergence Angle</b>	###/###																													
<b>Scale Factor</b>	#Error																													
<b>Elevation Adjust. Factor</b>																														
<b>Combined Adjust. Factor</b>	#Type!																													
<b>SUPERCEDED CONTROL</b>																														
<b>Horizontal Datum</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Reference Marks</b></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Description</th> <th rowspan="2">Azimuth</th> <th colspan="2">Distance</th> </tr> <tr> <th>Meters</th> <th>Feet</th> </tr> </thead> <tbody> <tr> <td>MK # 1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK # 2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK # 3</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="margin-top: 10px;"> <table style="width: 100%;"> <tr> <td style="width: 50%;"><b>AZ Mark Station</b></td> <td></td> </tr> <tr> <td><b>Geodetic Azimuth</b></td> <td></td> </tr> <tr> <td><b>Grid Azimuth</b></td> <td></td> </tr> </table> </div>		Description	Azimuth	Distance		Meters	Feet	MK # 1					MK # 2					MK # 3					<b>AZ Mark Station</b>		<b>Geodetic Azimuth</b>		<b>Grid Azimuth</b>	
	Description					Azimuth	Distance																							
			Meters	Feet																										
MK # 1																														
MK # 2																														
MK # 3																														
<b>AZ Mark Station</b>																														
<b>Geodetic Azimuth</b>																														
<b>Grid Azimuth</b>																														
<b>Latitude</b>																														
<b>Longitude</b>																														
<b>Ellipsoid Height:</b>																														
<b>Grid Northing (Meters)</b>																														
<b>Grid Easting (Meters)</b>																														

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620019A	<b>Date Monumented</b> 7/27/2002	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061228,60209,061082,061335
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	615,964.1176 0.0010
<b>Easting (M)</b>	351,788.2570 0.0020
<b>Elevation (M)*</b>	114.345
<b>Northing (SFT)</b>	2,020,875.6092
<b>Easting (SFT)</b>	1,154,158.6398
<b>Elevation (SFT)*</b>	375.145

  

<b>Convergence Angle</b>	0 17 39.1863672
<b>Scale Factor</b>	0.999969284
<b>Elevation Adjust. Factor</b>	0.9999820559
<b>Combined Adjust. Factor</b>	0.9999513405

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34 36	45.6177096	
<b>Longitude</b>	92 31	32.4388344	
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	615,964.5140		
<b>Grid Easting (Meters)</b>	351,788.5310		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 183 IN THE CITY OF BRYANT ,GO WEST ON HIGHWAY 5 1.70 MILES TO THE STATION ON THE LEFT LOCATED AT THE SOUTHEAST END OF THE HURRICANE CREEK BRIDGE, 5.9 METERS SOUTH OF THE CENTERLINE OF HIGHWAY 5, 5.25 METERS EAST OF BRIDGE ABUTMENT, AND 0.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 620019A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	272	4.75	15.6
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	345	1.10	3.6
MK # 3	PUNCH MARK TOP OF STEEL GUARDRAIL POST	65	4.85	15.9

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, ARHP	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.
Ref Mon # 2 SALIPORT	
Ref Mon # 3 ARCM, ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620020	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> 60209,061335,061474
--------------------------	------------------------	----------------------	-------------------------	----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 617,654.1650		<b>Latitude</b> 34 37 41.1831552
<b>Easting (M)</b> 356,402.8126		<b>Longitude</b> 92 28 31.6257852
<b>Elevation (M)*</b> 117.809		<b>Ellipsoid Height (M):</b> 91.481
<b>Northing (SFT)</b> 2,026,420.3730		<b>Geoid Height (M):</b> -26.331
<b>Easting (SFT)</b> 1,169,298.2277		
<b>Elevation (SFT)*</b> 386.510		

  

<b>Convergence Angle</b>	0	15	57.9810113
<b>Scale Factor</b>	0.999972037		
<b>Elevation Adjust. Factor</b>	0.9999815123		
<b>Combined Adjust. Factor</b>	0.9999535499		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM JCT OF I-30 &amp; SR-183 (X-123) IN BRYANT GET ON E-BOUND SERVICE RD &amp; GO 1.5 MI TO STA ON RT ON TOP OF BANK IN SE COR OF OVERPASS. 29' SE OF OVERPASS C/L. STA IS A 2 1/2" ALUM CAP STAMPED "620020 2002"</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF PARAPET WALL	15	18.50	60.7
MK # 2	END OF GUARD RAIL	162	59.00	193.6
MK # 3	DROP INLET	97	11.00	36.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 386.5560</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620020A	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> 60209,061335,061474
---------------------------	------------------------	----------------------	-------------------------	----------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 617,392.2853		<b>Latitude</b> 34 37 32.5571016
<b>Easting (M)</b> 355,565.3299		<b>Longitude</b> 92 29 4.4562048
<b>Elevation (M)*</b> 123.764		<b>Ellipsoid Height (M):</b> 97.416
<b>Northing (SFT)</b> 2,025,561.1894		<b>Geoid Height (M):</b> -26.332
<b>Easting (SFT)</b> 1,166,550.5865		
<b>Elevation (SFT)*</b> 406.050		

  

<b>Convergence Angle</b>	0	16	16.3558914
<b>Scale Factor</b>	0.999971605		
<b>Elevation Adjust. Factor</b>	0.9999805777		
<b>Combined Adjust. Factor</b>	0.9999521833		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	355	81.00	265.7
<b>MK # 2</b>	CHURCH SIGN	265	28.00	91.9
<b>MK # 3</b>	WATER METER	110	7.00	23.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 406.0300</td> </tr> </table>	Comments	Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 406.0300
Comments			
Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 406.0300			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620021	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061082,061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,553.1013	
<b>Easting (M)</b>	342,284.9436	
<b>Elevation (M)*</b>	94.272	
<b>Northing (SFT)</b>	2,019,527.1332	
<b>Easting (SFT)</b>	1,122,979.8525	
<b>Elevation (SFT)*</b>	309.290	

  

<b>Convergence Angle</b>	0	21	7.9087772
<b>Scale Factor</b>	0.999968550		
<b>Elevation Adjust. Factor</b>	0.9999852059		
<b>Combined Adjust. Factor</b>	0.9999537564		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	36	30.5265960
<b>Longitude</b>	92	37	45.3740520
<b>Ellipsoid Height:</b>	67.757		
<b>Grid Northing (Meters)</b>	615,553.1012		
<b>Grid Easting (Meters)</b>	342,284.9445		

  

Location Description			
TO REACH THE STATION FROM U.S STATE HIGHWAY 5 AND HIGHWAY 298, NORTH WEST OF BENTON, GO SOUTH ON HIGHWAY 5 0.05 MILES TO THE STATION ON THE RIGHT. NORTH 8.20 METERS OF THE CENTER OF THE HIGHWAY, WEST 22.30 METERS OF A GRAVEL DRIVE, AND SOUTH 0.30 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "620021 2003" ON TOP OF 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	84	18.30	60.0
MK # 2	UNDER GROUND CABLE MARKER	267	16.90	55.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    Russport, 480016 Ref Mon # 2    AHTD MON 1 Ref Mon # 3    AHTD HOPE 1	<b>Comments</b>  ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620021A	<b>Date Monumented</b> 1/15/2003	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061082,061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,393.4117	
<b>Easting (M)</b>	341,801.6859	
<b>Elevation (M)*</b>	102.646	
<b>Northing (SFT)</b>	2,019,003.2182	
<b>Easting (SFT)</b>	1,121,394.3645	
<b>Elevation (SFT)*</b>	336.764	

  

<b>Convergence Angle</b>	0	21	18.5031732
<b>Scale Factor</b>	0.999968294		
<b>Elevation Adjust. Factor</b>	0.9999838918		
<b>Combined Adjust. Factor</b>	0.9999521863		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	36	25.2474840
<b>Longitude</b>	92	38	4.3030680
<b>Ellipsoid Height:</b>	76.132		
<b>Grid Northing (Meters)</b>	615,393.4113		
<b>Grid Easting (Meters)</b>	341,801.6868		

  

Location Description			
TO REACH THE STATION FROM U.S. STATE HIGHWAY 5 AND HIGHWAY 298, NORTH WEST OF BENTON, GO SOUTH ON HIGHWAY 5 0.30 MILES TO THE STATION ON THE LEFT. 8.80 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 1.40 METERS NORTH OF AN 8 STRAN BARB WIRE FENCE AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "620021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	312	20.40	66.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    Russport, 480016 Ref Mon # 2    AHTD MON 1 Ref Mon # 3    AHTD HOPE 1	<b>Comments</b>  ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620022	<b>Date Monumented</b> 11/5/2004	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 35	<b>Job Number:</b> 061155
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 609,889.1239		<b>Latitude</b> 34 33 27.4745628
<b>Easting (M)</b> 346,224.6370		<b>Longitude</b> 92 35 9.4681392
<b>Elevation (M)*</b> 104.022		<b>Ellipsoid Height (M):</b> 77.765
		<b>Geoid Height (M):</b> -26.284

  

<b>Northing (SFT)</b> 2,000,944.5673		<b>Location Description</b>
<b>Easting (SFT)</b> 1,135,905.3299		
<b>Elevation (SFT)*</b> 341.280		
<b>Convergence Angle</b> 0 19 40.6496717		
<b>Scale Factor</b> 0.999960062		
<b>Elevation Adjust. Factor</b> 0.9999836758		
<b>Combined Adjust. Factor</b> 0.9999437384		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY WIRE	182	6.95	22.8
<b>MK # 2</b>	LIGHT POLE	291	2.30	7.5
<b>MK # 3</b>	ANCHOR OF GUY WIRE	219	8.10	26.6

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SALIPORT	*****NOTE***** ENT REPORTED DAMAGED BY CRAFTON TULL ON 10/31/2018 BY MARK A. MEADOR, RPLS elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.
<b>Ref Mon # 2</b> LROC C.O.R.S.	
<b>Ref Mon # 3</b> K 124	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620022A	<b>Date Monumented</b> 11/5/2004	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 35	<b>Job Number:</b> 061155
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 609,863.0919		<b>Latitude</b> 34 33 26.7176916
<b>Easting (M)</b> 346,700.1690		<b>Longitude</b> 92 34 50.8088604
<b>Elevation (M)*</b> 101.996		<b>Ellipsoid Height (M):</b> 75.745
		<b>Geoid Height (M):</b> -26.275

  

<b>Northing (SFT)</b> 2,000,859.1607		<b>Location Description</b>
<b>Easting (SFT)</b> 1,137,465.4711		
<b>Elevation (SFT)*</b> 334.631		
<b>Convergence Angle</b> 0 19 30.2062471		
<b>Scale Factor</b> 0.999960029		
<b>Elevation Adjust. Factor</b> 0.9999839938		
<b>Combined Adjust. Factor</b> 0.9999440235		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	265	3.20	10.5
<b>MK # 2</b>	POWER POLE	340	16.40	53.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SALIPORT	3-wire elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.
<b>Ref Mon # 2</b> LROC C.O.R.S.	
<b>Ref Mon # 3</b> K 124	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620023	<b>Date Monumented</b> 5/8/2007	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> 061206
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,945.9009	
<b>Easting (M)</b>	353,237.8300	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,001,130.8432	
<b>Easting (SFT)</b>	1,158,914.4473	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	6.6824483
<b>Scale Factor</b>	0.999960198		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BAUXITE POST OFFI	154	23.47	77.0
MK # 2	FIRE HYDRANDT	255	38.62	126.7
MK # 3	FLAG POLE	139	14.87	48.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> DQUA	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 33 30.5349768
<b>Longitude</b>	92 30 34.3747224
<b>Ellipsoid Height (M):</b>	85.508
<b>Geoid Height (M):</b>	-26.227

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.6 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF THE BAUXITE POST OFFICE, WEST 99.2 FEET OF THE CENTERLINE OF A COUNTY ROAD, EAST OF THE CENTERLINE OF A CONCRETE DRIVE, SOUTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	620023A
<b>Geodetic Azimuth</b>	269 10 05
<b>Grid Azimuth</b>	269 27 11

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620023A	<b>Date Monumented</b> 5/8/2007	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> 061206
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,940.8099	
<b>Easting (M)</b>	352,704.5010	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,001,114.1405	
<b>Easting (SFT)</b>	1,157,164.6837	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	18.3911430
<b>Scale Factor</b>	0.999960186		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.3 MILES TO THE STATION MARK ON THE LEFT IN THE CENTER OF A GRAVEL DRIVE, NORTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 62.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	293	16.70	54.8
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	620023
<b>Geodetic Azimuth</b>	89 09 53
<b>Grid Azimuth</b>	89 27 11

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620024	<b>Date Monumented</b> 5/8/2007	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> 061206
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,603.7079	
<b>Easting (M)</b>	354,574.4750	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,003,288.9983	
<b>Easting (SFT)</b>	1,163,299.7567	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	16	37.4061640
<b>Scale Factor</b>	0.999961158		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.8 MILES TO THE SALINE COUNTY CAREER CENTER (3201 SOUTH REYNOLDS ROAD) ON THE RIGHT, TURN RIGHT AND FOLLOW DRIVE (BEARING TO THE RIGHT) 0.1 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 200.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	348	36.58	120.0
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARCM</p> <p>Ref Mon # 3    DQUA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620024A	<b>Date Monumented</b> 5/8/2007	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> 061206
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,951.8639	
<b>Easting (M)</b>	354,517.3580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	2,004,431.2401	
<b>Easting (SFT)</b>	1,163,112.3654	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	16	38.6972730
<b>Scale Factor</b>	0.999961665		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	235	24.32	79.8
<b>MK # 2</b>	POWER POLE	20	16.37	53.7
<b>MK # 3</b>	28 INCH PINE TREE	68	30.48	100.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> DQUA	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    34    34    3.3853836

**Longitude**    92    29    44.3735772

**Ellipsoid Height (M):**    89.534   

**Geoid Height (M):**    -26.241

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.9 MILES TO THE STATION MARK ON THE RIGHT, EAST 32.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620025	<b>Date Monumented</b> 7/23/2008	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> 167	<b>Job Number:</b> 020318,001847
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	606,028.4389	
<b>Easting (M)</b>	368,749.3350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,988,278.3033	
<b>Easting (SFT)</b>	1,209,805.1099	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	25.8382019
<b>Scale Factor</b>	0.999954844		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of highways 167 and 367 just south of East End go south on hwy-167 for 0.20 miles to the station on the right. 45.0 feet west of the west edge of the asphalt, 37.0 feet south southwest of the center of a paved drive and 41.0 mfeet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620025 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	45	6.34	20.8
MK # 2	Southwest end of a culvert	74	8.02	26.3
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM ARLR DQUA <b>Ref Mon # 2</b> 620016 270015 <b>Ref Mon # 3</b>	This station is a replacement for 620015A which was destroyed.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620026	<b>Date Monumented</b> 7/28/2008	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> NA	<b>Job Number:</b> 020318,061035
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	608,811.0029	
<b>Easting (M)</b>	372,348.2780	
<b>Elevation (M)*</b>	86.965	
<b>Northing (SFT)</b>	1,997,407.4320	
<b>Easting (SFT)</b>	1,221,612.6421	
<b>Elevation (SFT)*</b>	285.318	

  

<b>Convergence Angle</b>	0	10	7.0347246
<b>Scale Factor</b>	0.999958689		
<b>Elevation Adjust. Factor</b>	0.9999863525		
<b>Combined Adjust. Factor</b>	0.9999450421		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	259	11.89	39.0
MK # 2	Water valve	263	17.68	58.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM ARLR DQUA <b>Ref Mon # 2</b> 620016 270015 <b>Ref Mon # 3</b>	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    32    56.1599700
<b>Longitude</b>	92    18    4.5896472
<b>Ellipsoid Height (M):</b>	60.736
<b>Geoid Height (M):</b>	-26.229

Location Description
<p>To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.60 miles to Woodson lateral road. Turn left (west) on Woodson lateral road and go 0.05 miles to the station on the right in front of Cornerstone Fellowship Church. 48.70 feet north of the center of Woodson road, 38.0 feet west of the center of a paved drive and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "620026 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>

<b>AZ Mark Station</b>	620026A
<b>Geodetic Azimuth</b>	62 17 29
<b>Grid Azimuth</b>	62 27 36

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620026A	<b>Date Monumented</b> 7/28/2008	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> 167	<b>Job Number:</b> 020318,061035
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,037.5769	
<b>Easting (M)</b>	372,782.7850	
<b>Elevation (M)*</b>	83.670	
<b>Northing (SFT)</b>	1,998,150.7835	
<b>Easting (SFT)</b>	1,223,038.1871	
<b>Elevation (SFT)*</b>	274.507	

  

<b>Convergence Angle</b>	0	9	57.5105114
<b>Scale Factor</b>	0.999959011		
<b>Elevation Adjust. Factor</b>	0.9999868696		
<b>Combined Adjust. Factor</b>	0.9999458812		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.80 miles to the station on the right 34.80 feet southeast of the center of hwy-167 and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "620026A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARCM ARLR DQUA <b>Ref Mon # 2</b> 620016 270015 <b>Ref Mon # 3</b>	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620027	<b>Date Monumented</b> 10/27/2008	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061228,061335, 061508
--------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	616,809.0903    0.0020
<b>Easting (M)</b>	353,560.9080    0.0020
<b>Elevation (M)*</b>	128.002

  

<b>Northing (SFT)</b>	2,023,647.8238
<b>Easting (SFT)</b>	1,159,974.4123
<b>Elevation (SFT)*</b>	419.954

  

<b>Convergence Angle</b>	0    17	0.3346411
<b>Scale Factor</b>	0.999970647	
<b>Elevation Adjust. Factor</b>	0.9999799127	
<b>Combined Adjust. Factor</b>	0.9999505603	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34    37	13.3163436	
<b>Longitude</b>	92    30	23.0332068	
<b>Ellipsoid Height:</b>	101.694		
<b>Grid Northing (Meters)</b>	616,809.0949		
<b>Grid Easting (Meters)</b>	353,560.9050		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	254	17.22	56.5
<b>MK # 2</b>	GATE POST	117	2.89	9.5
<b>MK # 3</b>	CORNER OF SIDE WALK AT BACK OF CURB	25	2.44	8.0

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>ARHP</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>ARLR</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>ARPB</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	ARHP	<b>Ref Mon # 2</b>	ARLR	<b>Ref Mon # 3</b>	ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>                     3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock.                      *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.                 </td> </tr> </table>	Comments	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	ARHP										
<b>Ref Mon # 2</b>	ARLR										
<b>Ref Mon # 3</b>	ARPB										
Comments											
3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.											

  

<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.45 MILES TO THE STATION MARK ON THE LEFT, 22.5 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY, 4.60 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620027A	<b>Date Monumented</b> 10/27/2008	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061228,061335, 061508
---------------------------	--------------------------------------	------------------------------	-------------------------	-------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	617,078.4329 0.0020
<b>Easting (M)</b>	353,872.0426 0.0020
<b>Elevation (M)*</b>	137.956

  

<b>Northing (SFT)</b>	2,024,531.4919	
<b>Easting (SFT)</b>	1,160,995.1931	
<b>Elevation (SFT)*</b>	452.611	

  

<b>Convergence Angle</b>	0	16	53.5277502
<b>Scale Factor</b>	0.999971084		
<b>Elevation Adjust. Factor</b>	0.9999783506		
<b>Combined Adjust. Factor</b>	0.9999494353		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	37	22.1065248
<b>Longitude</b>	92	30	10.8711108
<b>Ellipsoid Height:</b>	111.637		
<b>Grid Northing (Meters)</b>	617,078.4249		
<b>Grid Easting (Meters)</b>	353,872.0450		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 53.0 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY AND EAST 39.7 FEET OF A WITNESS POST AND 21.6 FOOT NORTHWEST OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	242	9.30	30.5
<b>MK # 2</b>	GUY WIRE ANCHOR	261	10.76	35.3
<b>MK # 3</b>	CORNER OF RETAINING WALL	359	12.80	42.0

  

<b>AZ Mark Station</b>	620027
<b>Geodetic Azimuth</b>	228 50 17
<b>Grid Azimuth</b>	229 07 11

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, ARCM <b>Ref Mon # 2</b> SALIPORT <b>Ref Mon # 3</b> ARHP, ARHR	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620028	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> I 30	<b>Job Number:</b> 061256
--------------------------	------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,001.4972	
<b>Easting (M)</b>	337,748.7424	
<b>Elevation (M)*</b>	116.332	
<b>Northing (SFT)</b>	1,991,470.7454	
<b>Easting (SFT)</b>	1,108,097.3324	
<b>Elevation (SFT)*</b>	381.667	

  

<b>Convergence Angle</b>	0	22	46.3147365
<b>Scale Factor</b>	0.999955951		
<b>Elevation Adjust. Factor</b>	0.9999817440		
<b>Combined Adjust. Factor</b>	0.9999376958		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Underground cable marker	306	52.43	172.0
<b>MK # 2</b>	Corner of concrete island	103	21.64	71.0
<b>MK # 3</b>	113 mile marker post	213	46.02	151.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Saliport, Saliport Az.	Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
<b>Ref Mon # 2</b> ARCM ARHP	
<b>Ref Mon # 3</b> CSAL	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 31 52.0641552
<b>Longitude</b>	92 40 41.1961260
<b>Ellipsoid Height (M):</b>	108.959
<b>Geoid Height (M):</b>	-26.435

  

Location Description
<p>To reach the station from the junction of Interstate 30, US hwy-67 and hwy-229 southwest of Benton go west on I-30 for 0.70 miles to the station on the right near the north end of the old weigh station. 118.0 feet north of the center of the center of the west bound lane of I-30, 70.0 mfeet south of the center of the service road, 5.0 feet north of the edge of the paved weigh station and 2.0 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "620028 2009" set on top of a 5/8 inch by 4.0 foot long iron rod and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620029	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> I 30	<b>Job Number:</b> 061256,061330
--------------------------	------------------------	------------------------------	-------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,001.4972	
<b>Easting (M)</b>	337,748.7424	
<b>Elevation (M)*</b>	135.391	
<b>Northing (SFT)</b>	1,991,470.7454	
<b>Easting (SFT)</b>	1,108,097.3324	
<b>Elevation (SFT)*</b>	444.196	

  

<b>Convergence Angle</b>	0	22	46.3147365
<b>Scale Factor</b>	0.999955951		
<b>Elevation Adjust. Factor</b>	0.9999787532		
<b>Combined Adjust. Factor</b>	0.9999347051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	31	52.0640508
<b>Longitude</b>	92	40	41.1961044
<b>Ellipsoid Height:</b>	109.056		
<b>Grid Northing (Meters)</b>	607,001.4939		
<b>Grid Easting (Meters)</b>	337,748.7430		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	ARLR, AB8283
<b>Ref Mon # 2</b>	ARHP
<b>Ref Mon # 3</b>	ARCM

  

Comments
Previous Elevation (135.423 m) from Digital Levels ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256. *****Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. *****FOUND

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620030	<b>Date Monumented</b> 9/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> arrows ro	<b>Job Number:</b> 061341
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,676.1864	
<b>Easting (M)</b>	331,559.5803	
<b>Elevation (M)*</b>	116.787	0.0152
<b>Northing (SFT)</b>	2,016,650.1215	
<b>Easting (SFT)</b>	1,087,791.7230	
<b>Elevation (SFT)*</b>	383.159	

  

<b>Convergence Angle</b>	0	25	3.3799980
<b>Scale Factor</b>	0.999967066		
<b>Elevation Adjust. Factor</b>	0.9999816727		
<b>Combined Adjust. Factor</b>	0.9999487393		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	center of a metal gate	35	27.74	91.0
MK # 2	power pole with a transformer	173	22.55	74.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620030A	<b>Date Monumented</b> 9/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> arrows ro	<b>Job Number:</b> 061341
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	614,443.1442	
<b>Easting (M)</b>	331,824.2639	
<b>Elevation (M)*</b>	112.059	0.0152
<b>Northing (SFT)</b>	2,015,885.5489	
<b>Easting (SFT)</b>	1,088,660.1058	
<b>Elevation (SFT)*</b>	367.647	

  

<b>Convergence Angle</b>	0	24	57.5289289
<b>Scale Factor</b>	0.999966709		
<b>Elevation Adjust. Factor</b>	0.9999824146		
<b>Combined Adjust. Factor</b>	0.9999491242		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>Starting at the intersection of highway 5, 9, and narrows road go south on narrows road for 2 miles to the station on the left. The station is a standard alum. cap stamped (620030A 2011) and is set on a 4 foot 5/8" rebar. It is 15' north east of the CL of narrows road, 3' north east of a guard rail, and 3' north east of a witness post. Lat.34.3552 Lon.092.4436</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	North East corner of bridge	164	10.50	34.4	
MK # 2	North end of guardrail	340	12.80	42.0	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620031	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 88	<b>Job Number:</b> 061330
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,126.3872	
<b>Easting (M)</b>	327,464.2643	
<b>Elevation (M)*</b>	132.109	
<b>Northing (SFT)</b>	1,998,442.1553	
<b>Easting (SFT)</b>	1,074,355.6738	
<b>Elevation (SFT)*</b>	433.427	

  

<b>Convergence Angle</b>	0	26	32.3941624
<b>Scale Factor</b>	0.999958797		
<b>Elevation Adjust. Factor</b>	0.9999792683		
<b>Combined Adjust. Factor</b>	0.9999380661		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	69	19.08	62.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2: ARCM	
Ref Mon # 3: ARHP	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	34 32 58.6290084
<b>Longitude</b>	92 47 25.1324988
<b>Ellipsoid Height (M):</b>	105.449
<b>Geoid Height (M):</b>	-26.674

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 11.9 MILES TO STATE HIGHWAY 88 AND TURN RIGHT (WEST) AND GO 0.1 MILES TO THE MARK ON THE LEFT, 43 FEET SOUTHEAST OF THE CENTELINE OF THE ROAD, AND NORTH 1.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620031 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620031A	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 70	<b>Job Number:</b> 061330
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,200.8656	
<b>Easting (M)</b>	327,996.6226	
<b>Elevation (M)*</b>	135.490	
<b>Northing (SFT)</b>	1,998,686.5066	
<b>Easting (SFT)</b>	1,076,102.2526	
<b>Elevation (SFT)*</b>	444.519	

  

<b>Convergence Angle</b>	0	26	20.7201640
<b>Scale Factor</b>	0.999958908		
<b>Elevation Adjust. Factor</b>	0.9999787377		
<b>Combined Adjust. Factor</b>	0.9999376466		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 0.2 MILES TO THE MARK ON THE LEFT, 19.2 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, 27.8 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND SOUTH 1.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR, AB8283</p> <p><b>Ref Mon # 2</b>    ARCM</p> <p><b>Ref Mon # 3</b>    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation Established from Digital Levels by B&amp;F Engineering from NGS 2nd Order BM's R 79, N 79, &amp; Z 78 in March of 2012 for Job 061330.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620032	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 70	<b>Job Number:</b> 061330
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	607,803.5851				
<b>Easting (M)</b>	332,137.8891				
<b>Elevation (M)*</b>	103.760				
<b>Northing (SFT)</b>	1,994,102.2621				
<b>Easting (SFT)</b>	1,089,689.0578				
<b>Elevation (SFT)*</b>	340.418				

  

<b>Convergence Angle</b>	0	24	49.5869496
<b>Scale Factor</b>	0.999956998		
<b>Elevation Adjust. Factor</b>	0.9999837170		
<b>Combined Adjust. Factor</b>	0.9999407157		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	280	9.66	31.7
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	620032A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620032A	<b>Date Monumented</b> 8/8/2011	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 70	<b>Job Number:</b> 061330
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,662.7508	
<b>Easting (M)</b>	332,832.7695	
<b>Elevation (M)*</b>	103.154	
<b>Northing (SFT)</b>	1,993,640.2082	
<b>Easting (SFT)</b>	1,091,968.8446	
<b>Elevation (SFT)*</b>	338.432	

  

<b>Convergence Angle</b>	0	24	34.3126131
<b>Scale Factor</b>	0.999956811		
<b>Elevation Adjust. Factor</b>	0.9999838120		
<b>Combined Adjust. Factor</b>	0.9999406237		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR, AB8283 <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARHP	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 3.6 MILES TO THE MARK ON THE LEFT, 61.2 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, 10.8 FEET WEST OF THE CENTERLINE OF A FIELD ROAD AND SOUTH 11.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620032A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	620032
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620033	<b>Date Monumented</b> 9/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> 5	<b>Job Number:</b> 061341,061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,671.1594	
<b>Easting (M)</b>	333,903.2209	
<b>Elevation (M)*</b>	158.960	
<b>Northing (SFT)</b>	2,023,195.2955	
<b>Easting (SFT)</b>	1,095,480.8172	
<b>Elevation (SFT)*</b>	521.523	

  

<b>Convergence Angle</b>	0	24	12.2092360
<b>Scale Factor</b>	0.999970237		
<b>Elevation Adjust. Factor</b>	0.9999750546		
<b>Combined Adjust. Factor</b>	0.9999452923		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	34	37	5.0166840
<b>Longitude</b>	92	43	14.6639640
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	616,671.1669		
<b>Grid Easting (Meters)</b>	333,903.2201		

  

Location Description				
Starting at the intersection of highway 5 and 9 go northon 5 for 3.2 miles to the station on the left. The station is a standard alum. cap stamped(620033 2011) and is set on a 4 foot 5/8" rebar. It is 42' north of the center line of highway5 and is 2' south of a witness post. Lat.34.3705 Lon.092.4315				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	east end of concrete ditch	97	17.98	59.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.                 </td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620033A	<b>Date Monumented</b> 9/19/2011	<b>Monumented By</b> AHTD	<b>County</b> Saline	<b>Route</b> 5	<b>Job Number:</b> 061341,061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,484.2200	
<b>Easting (M)</b>	333,254.2630	
<b>Elevation (M)*</b>	122.146	
<b>Northing (SFT)</b>	2,022,581.9785	
<b>Easting (SFT)</b>	1,093,351.6945	
<b>Elevation (SFT)*</b>	400.741	

  

<b>Convergence Angle</b>	0	24	26.4377819
<b>Scale Factor</b>	0.999969931		
<b>Elevation Adjust. Factor</b>	0.9999808316		
<b>Combined Adjust. Factor</b>	0.9999507632		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	34	36	58.8012120
<b>Longitude</b>	92	43	40.0862280
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	616,484.2302		
<b>Grid Easting (Meters)</b>	333,254.2595		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	213	2.35	7.7
MK # 2	Telephone box	98	4.88	16.0
MK # 3	South West corner of a metal fence	338	22.86	75.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620034	<b>Date Monumented</b> 5/15/2013	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> BB0602,CA0601
--------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	607,001.4849	0.0040
<b>Easting (M)</b>	337,748.7570	0.0030
<b>Elevation (M)*</b>	135.278	

  

<b>Northing (SFT)</b>	1,991,470.7050	
<b>Easting (SFT)</b>	1,108,097.3803	
<b>Elevation (SFT)*</b>	443.825	

  

<b>Convergence Angle</b>	0 22	46.3144161
<b>Scale Factor</b>	0.999955951	
<b>Elevation Adjust. Factor</b>	0.9999787709	
<b>Combined Adjust. Factor</b>	0.9999347229	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2    ARHP	
Ref Mon # 3    620004A	

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 31 52.0637592
<b>Longitude</b>	92 40 41.1955536
<b>Ellipsoid Height (M):</b>	108.925 0.0027
<b>Geoid Height (M):</b>	-26.353 0.0000

  

Location Description
<p>To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 0.20 miles to the station on the left in the median at the end of the I-30 on ramp. 38.0 feet north of the edge of the pavement of a lane crossover, 36.0 feet west of the center of the east bound lane, 29.70 feet east of the center of the west bound lane and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "620034 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620035	<b>Date Monumented</b> 5/15/2013	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> BB0602
--------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	604,576.8304	0.0030	
<b>Easting (M)</b>	335,914.9036	0.0030	
<b>Elevation (M)*</b>	126.653		
<b>Northing (SFT)</b>	1,983,515.8177		
<b>Easting (SFT)</b>	1,102,080.8129		
<b>Elevation (SFT)*</b>	415.526		

  

<b>Convergence Angle</b>	0	23	26.2005103
<b>Scale Factor</b>	0.999952706		
<b>Elevation Adjust. Factor</b>	0.9999801245		
<b>Combined Adjust. Factor</b>	0.9999328314		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2    ARHP	
Ref Mon # 3    620004A	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34   30   32.9761764
<b>Longitude</b>	92   41   52.4600844
<b>Ellipsoid Height (M):</b>	100.313   0.0064
<b>Geoid Height (M):</b>	-26.339   0.0000

Location Description
<p>To reach the station from the junction of I-30, US highway 70 southwest of Benton go west on I-30 for 2.1 miles to the station on the right, 21.0 feet north of the edge of the concrete for the west bound lane and south 16.4 feet of a witness post. The mark is a standard 2 1/2" cap stamped "620035 2013" on top of a 4 foot rebar driven below the surface of the ground.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620035A	<b>Date Monumented</b> 5/15/2013	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> BB0602
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	604,190.2325	0.0040			
<b>Easting (M)</b>	335,628.4549	0.0040			
<b>Elevation (M)*</b>	138.586				
<b>Northing (SFT)</b>	1,982,247.4545				
<b>Easting (SFT)</b>	1,101,141.0225				
<b>Elevation (SFT)*</b>	454.677				

  

<b>Convergence Angle</b>	0	23	32.4276862
<b>Scale Factor</b>	0.999952202		
<b>Elevation Adjust. Factor</b>	0.9999782518		
<b>Combined Adjust. Factor</b>	0.9999304549		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	end of concrete culvert	332	64.62	212.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> 620004A	

  

Location Description	
To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 2.4 miles to the station on the right, 10.4 feet north of the edge of the concrete for the west bound lane and west 82.3 feet of the centerline of a overpass. The mark is a standard 2 1/2" cap stamped "620035A 2013" on top of a 2 foot rebar driven below the surface of the ground.	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 30 20.3663124
<b>Longitude</b>	92 42 3.5861868
<b>Ellipsoid Height (M):</b>	112.248 0.0068
<b>Geoid Height (M):</b>	-26.338 0.0000

  

<b>AZ Mark Station</b>	620035
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620036	<b>Date Monumented</b> 5/15/2013	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> BB0602
--------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	601,977.6892	0.0030
<b>Easting (M)</b>	333,854.0809	0.0030
<b>Elevation (M)*</b>	123.476	

  

<b>Northing (SFT)</b>	1,974,988.4687	
<b>Easting (SFT)</b>	1,095,319.5971	
<b>Elevation (SFT)*</b>	405.103	

  

<b>Convergence Angle</b>	0 24	11.0178719
<b>Scale Factor</b>	0.999949389	
<b>Elevation Adjust. Factor</b>	0.9999806230	
<b>Combined Adjust. Factor</b>	0.9999300130	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> 620004A	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 29 8.1622428
<b>Longitude</b>	92 43 12.5353164
<b>Ellipsoid Height (M):</b>	97.145 0.0088
<b>Geoid Height (M):</b>	-26.331 0.0000

  

Location Description
To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.1 miles to the station on the left in the median and 11 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620036 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620036A	<b>Date Monumented</b> 5/15/2013	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I 30	<b>Job Number:</b> BB0602
---------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	601,679.2675    0.0030
<b>Easting (M)</b>	333,445.3693    0.0030
<b>Elevation (M)*</b>	137.530

  

<b>Northing (SFT)</b>	1,974,009.3968	
<b>Easting (SFT)</b>	1,093,978.6824	
<b>Elevation (SFT)*</b>	451.213	

  

<b>Convergence Angle</b>	0	24	19.9369885
<b>Scale Factor</b>	0.999949018		
<b>Elevation Adjust. Factor</b>	0.9999784175		
<b>Combined Adjust. Factor</b>	0.9999274366		

  

SUPERCEDED CONTROL

  

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1	Northeast corner of bridge	195	3.05    10.0
MK # 2			
MK # 3			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> 620004A	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34    28    58.3838472
<b>Longitude</b>	92    43    28.4711124
<b>Ellipsoid Height (M):</b>	111.196    0.0091
<b>Geoid Height (M):</b>	-26.334    0.0000

  

**Location Description**  
  
 To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.5 miles to the station on the right at the northeast corner of the bridge over I 30 and 5.4 feet east of a witness post. The station mark is a standard 2 1/2 inch cap stamped "620036A 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620037	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	615,993.9341	
<b>Easting (M)</b>	337,659.3619	
<b>Elevation (M)*</b>	111.728	
<b>Northing (SFT)</b>	2,020,973.4321	
<b>Easting (SFT)</b>	1,107,804.0898	
<b>Elevation (SFT)*</b>	366.560	

  

<b>Convergence Angle</b>	0	22	49.5869403
<b>Scale Factor</b>	0.999969199		
<b>Elevation Adjust. Factor</b>	0.9999824666		
<b>Combined Adjust. Factor</b>	0.9999516661		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE BRIDGE CORNER	264	17.70	58.1
MK # 2	POWER POLE	212	25.90	85.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620037A	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,027.9542	
<b>Easting (M)</b>	337,323.4489	
<b>Elevation (M)*</b>	113.770	
<b>Northing (SFT)</b>	2,021,085.0464	
<b>Easting (SFT)</b>	1,106,702.0153	
<b>Elevation (SFT)*</b>	373.259	

  

<b>Convergence Angle</b>	0	22	56.9715214
<b>Scale Factor</b>	0.999969250		
<b>Elevation Adjust. Factor</b>	0.9999821462		
<b>Combined Adjust. Factor</b>	0.9999513967		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	304	14.00	45.9
<b>MK # 2</b>	WOODEN GATE POST	271	8.80	28.9
<b>MK # 3</b>	18" CMP	181	1.30	4.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620038	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 9	<b>Job Number:</b> 061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	617,119.6628	
<b>Easting (M)</b>	329,675.9207	
<b>Elevation (M)*</b>	149.221	
<b>Northing (SFT)</b>	2,024,666.7604	
<b>Easting (SFT)</b>	1,081,611.7498	
<b>Elevation (SFT)*</b>	489.570	

  

<b>Convergence Angle</b>	0	25	45.1574984
<b>Scale Factor</b>	0.999970908		
<b>Elevation Adjust. Factor</b>	0.9999765829		
<b>Combined Adjust. Factor</b>	0.9999474915		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	185	23.60	77.4
<b>MK # 2</b>	6" PINE TREE	4	9.70	31.8
<b>MK # 3</b>	WOODEN FENCE POST	92	1.30	4.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

  

Location Description	
TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO NORTH ON HWY 9 FOR 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT WEST OF A WITNESS POST, AND 33.46 FT EAST OF THE CENTERLINE OF HWY 9. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 6200338 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	620038A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620038A	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 9	<b>Job Number:</b> 061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,686.7755	
<b>Easting (M)</b>	329,468.1255	
<b>Elevation (M)*</b>	132.814	
<b>Northing (SFT)</b>	2,023,246.5293	
<b>Easting (SFT)</b>	1,080,930.0084	
<b>Elevation (SFT)*</b>	435.739	

  

<b>Convergence Angle</b>	0	25	49.6515354
<b>Scale Factor</b>	0.999970210		
<b>Elevation Adjust. Factor</b>	0.9999791577		
<b>Combined Adjust. Factor</b>	0.9999493683		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	210	8.60	28.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620039	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	616,359.9272	
<b>Easting (M)</b>	325,574.1026	
<b>Elevation (M)*</b>	160.073	
<b>Northing (SFT)</b>	2,022,174.1945	
<b>Easting (SFT)</b>	1,068,154.3683	
<b>Elevation (SFT)*</b>	525.173	

  

<b>Convergence Angle</b>	0	27	15.1464588
<b>Scale Factor</b>	0.999969641		
<b>Elevation Adjust. Factor</b>	0.9999748799		
<b>Combined Adjust. Factor</b>	0.9999445217		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	38	3.90	12.8
MK # 2	12" PLASTIC PIPE	141	5.90	19.4
MK # 3	COMBINATION POLE	286	18.00	59.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 36 52.8934356
<b>Longitude</b>	92 48 41.5180764
<b>Ellipsoid Height (M):</b>	133.221
<b>Geoid Height (M):</b>	-26.820

Location Description
<p>TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 2.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT NORTH OF A WITNESS POST, AND 33.46 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620039 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620039A	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	616,172.5525				
<b>Easting (M)</b>	325,923.5778				
<b>Elevation (M)*</b>	163.919				
<b>Northing (SFT)</b>	2,021,559.4493				
<b>Easting (SFT)</b>	1,069,300.9382				
<b>Elevation (SFT)*</b>	537.792				

  

<b>Convergence Angle</b>	0	27	7.4362841
<b>Scale Factor</b>	0.999969347		
<b>Elevation Adjust. Factor</b>	0.9999742763		
<b>Combined Adjust. Factor</b>	0.9999436241		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 2.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0 FT SOUTH OF A WITNESS POST, AND 28.22 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620039A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620040	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	617,140.1191	
<b>Easting (M)</b>	321,587.9250	
<b>Elevation (M)*</b>	160.544	
<b>Northing (SFT)</b>	2,024,733.8741	
<b>Easting (SFT)</b>	1,055,076.3839	
<b>Elevation (SFT)*</b>	526.719	

  

<b>Convergence Angle</b>	0	28	42.8624902
<b>Scale Factor</b>	0.999970838		
<b>Elevation Adjust. Factor</b>	0.9999748060		
<b>Combined Adjust. Factor</b>	0.9999456448		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	72	3.20	10.5
MK # 2	COMBINATION POLE	99	29.40	96.5
MK # 3	CENTER 4 FT BOULDER	149	3.00	9.8

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

  

Location Description	
TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 5.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT NORTH OF A WITNESS POST, AND 38.71 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620040 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620040A	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	617,165.7001	
<b>Easting (M)</b>	321,139.8117	
<b>Elevation (M)*</b>	153.604	
<b>Northing (SFT)</b>	2,024,817.8011	
<b>Easting (SFT)</b>	1,053,606.1989	
<b>Elevation (SFT)*</b>	503.949	

  

<b>Convergence Angle</b>	0	28	52.7126496
<b>Scale Factor</b>	0.999970873		
<b>Elevation Adjust. Factor</b>	0.9999758951		
<b>Combined Adjust. Factor</b>	0.9999467688		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	342	5.20	17.1
MK # 2	30" HACKBERRY	146	27.00	88.6
MK # 3	WOODEN FENCE CORNER	289	14.00	45.9

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID96

**Latitude** 34 37 17.8673412

**Longitude** 92 51 35.8397028

**Ellipsoid Height (M):** 126.661

**Geoid Height (M):** -26.939

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 5.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT NORTH OF A WITNESS POST, 24.61 FT EAST OF THE CENTER OF REGGIE RD, AND 48.56 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620040A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	620040
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620041	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
--------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	612,406.8832	
<b>Easting (M)</b>	345,750.4607	
<b>Elevation (M)*</b>	140.943	
<b>Northing (SFT)</b>	2,009,204.9160	
<b>Easting (SFT)</b>	1,134,349.6365	
<b>Elevation (SFT)*</b>	462.410	

  

<b>Convergence Angle</b>	0	19	51.3793653
<b>Scale Factor</b>	0.999963749		
<b>Elevation Adjust. Factor</b>	0.9999778820		
<b>Combined Adjust. Factor</b>	0.9999416318		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO NORTH ON HWY 5 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 30.0 FT EAST OF A WITNESS POST, 26.0 FT NORTH OF THE CENTER OF FIRST ASSEMBLY OF GOD DRIVEWAY, AND 68.90 FT EAST OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH FLAG POLE	341	35.70	117.1
<b>MK # 2</b>	COMBINATION POLE 3 GY	320	33.40	109.6
<b>MK # 3</b>	LIGHT POLE	102	29.00	95.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620041A	<b>Date Monumented</b> 2/10/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> 5	<b>Job Number:</b> 061428
---------------------------	-------------------------------------	------------------------------	-------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	611,970.6726	
<b>Easting (M)</b>	345,834.6621	
<b>Elevation (M)*</b>	130.581	
<b>Northing (SFT)</b>	2,007,773.7817	
<b>Easting (SFT)</b>	1,134,625.8872	
<b>Elevation (SFT)*</b>	428.414	

  

<b>Convergence Angle</b>	0	19	49.4750074
<b>Scale Factor</b>	0.999963099		
<b>Elevation Adjust. Factor</b>	0.9999795081		
<b>Combined Adjust. Factor</b>	0.9999426078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE 2 GY	119	18.70	61.4
<b>MK # 2</b>	FLARED END SECTION	310	3.20	10.5
<b>MK # 3</b>	TRAFFIC SIGNAL POLE	299	28.00	91.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
---	--

  

Location Description			
TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO EAST ON HWY 5 FOR 100.0 FT TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT SOUTH OF A WITNESS POST, AND 51.18 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	34 34 34.9539924
<b>Longitude</b>	92 35 25.2363768
<b>Ellipsoid Height (M):</b>	104.225
<b>Geoid Height (M):</b>	-26.330

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620042	<b>Date Monumented</b> 6/24/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> NVILLE	<b>Job Number:</b> BR6208
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	622,925.6011    0.0050
<b>Easting (M)</b>	315,341.9277    0.0040
<b>Elevation (M)*</b>	158.335    0.0080
<b>Northing (SFT)</b>	2,043,715.0763
<b>Easting (SFT)</b>	1,034,584.3078
<b>Elevation (SFT)*</b>	519.472

  

<b>Convergence Angle</b>	0	31	1.2387880
<b>Scale Factor</b>	0.999980474		
<b>Elevation Adjust. Factor</b>	0.9999751526		
<b>Combined Adjust. Factor</b>	0.9999556271		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	81	5.60	18.4
<b>MK # 2</b>	TELEPHONE BOX	289	54.00	177.2
<b>MK # 3</b>	SOUTH END 12" RCP	0	28.00	91.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR	Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> P777	

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.0 MILES TO THE MARK ON THE RIGHT, EAST 7.3 FEET OF A PRIVATE ASPHALT DRIVE AND WEST 5.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

<b>AZ Mark Station</b>	620042A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620042A	<b>Date Monumented</b> 6/24/2014	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> NVILLE	<b>Job Number:</b> BR6208
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	623,535.2015	0.0060	
<b>Easting (M)</b>	315,313.2300	0.0060	
<b>Elevation (M)*</b>	153.134	0.0080	
<b>Northing (SFT)</b>	2,045,715.0736		
<b>Easting (SFT)</b>	1,034,490.1554		
<b>Elevation (SFT)*</b>	502.408		

  

<b>Convergence Angle</b>	0	31	1.9906651
<b>Scale Factor</b>	0.999981547		
<b>Elevation Adjust. Factor</b>	0.9999759688		
<b>Combined Adjust. Factor</b>	0.9999575163		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	340	94.50	310.0
<b>MK # 2</b>	WOODEN BRACE POST	176	132.00	433.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> P777	<b>Comments</b>  Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.
--	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.35 MILES TO THE MARK ON THE RIGHT, EAST 14 FEET OF THE CENTERLINE OF DANVILLE ROAD AND WEST 3.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	620042
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620043	<b>Date Monumented</b> 6/22/2017	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> 111	<b>Job Number:</b> 061390
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	618,964.4075	0.0020	
<b>Easting (M)</b>	359,221.9519	0.0020	
<b>Elevation (M)*</b>	108.305	0.0026	
<b>Northing (SFT)</b>	2,030,719.0603		
<b>Easting (SFT)</b>	1,178,547.3539		
<b>Elevation (SFT)*</b>	355.329		

  

<b>Convergence Angle</b>	0	14	56.1606615
<b>Scale Factor</b>	0.999974213		
<b>Elevation Adjust. Factor</b>	0.9999830038		
<b>Combined Adjust. Factor</b>	0.9999572172		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
To reach from the intersection of hwy 5 and N. Alexander (AR 111) in Saline County, go South 0.4 miles to station on the right. 8' West of curb, 17' South of S.W. corner of bridge, and 1.3' East of a witness post. Station is an AHTD GPS monument stamped "620043 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	curb		2.44	8.0
<b>MK # 2</b>	S.W. corner of bridge		5.18	17.0
<b>MK # 3</b>	witness post		0.40	1.3

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark N 338.
<b>Ref Mon # 1</b>	ARLR	
<b>Ref Mon # 2</b>	ARRV	
<b>Ref Mon # 3</b>	ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620043A	<b>Date Monumented</b> 6/22/2017	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> I-30	<b>Job Number:</b> 061390
---------------------------	-------------------------------------	------------------------------	--------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	618,510.0728    0.0020
<b>Easting (M)</b>	358,000.2914    0.0020
<b>Elevation (M)*</b>	112.888    0.0008
<b>Northing (SFT)</b>	2,029,228.4638
<b>Easting (SFT)</b>	1,174,539.2894
<b>Elevation (SFT)*</b>	370.368

  

<b>Convergence Angle</b>	0   15   22.9635095
<b>Scale Factor</b>	0.999973452
<b>Elevation Adjust. Factor</b>	0.9999822844
<b>Combined Adjust. Factor</b>	0.9999557369

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	edge of pavement of service road		2.74	9.0
MK # 2	15' combination power pole		1.52	5.0
MK # 3	witness post		0.46	1.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARRV <b>Ref Mon # 3</b> ARPB	Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark P 338.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620044-1	<b>Date Monumented</b> 11/9/2016	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> I-30	<b>Job Number:</b> 061508
----------------------------	-------------------------------------	------------------------------	-------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	615,678.6148    0.0010
<b>Easting (M)</b>	352,456.8782    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	2,019,938.9221	
<b>Easting (SFT)</b>	1,156,352.2746	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	24.4656066
<b>Scale Factor</b>	0.999968837		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Springhill Rd. in Saline County, drive South 0.2 miles, then West on flyover 0.25 mjiles to station on the right. 10.15' South West of SW corner of bridge, 10.84' West of gaurd rail, 0.73' South of witness post. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620044 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North East corner of bridge		3.09	10.1
<b>MK # 2</b>	guard rail		2.56	8.4
<b>MK # 3</b>	witness post		0.22	0.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARPB	elevations based on digital levels, checking into PN:902 from job 061335

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620048	<b>Date Monumented</b> 11/9/2016	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> Hwy 5	<b>Job Number:</b> 061508
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	614,467.1723	0.0010	
<b>Easting (M)</b>	349,190.4630	0.0010	
<b>Elevation (M)*</b>	147.619	0.0029	
<b>Northing (SFT)</b>	2,015,964.3811		
<b>Easting (SFT)</b>	1,145,635.7107		
<b>Elevation (SFT)*</b>	484.312		

  

<b>Convergence Angle</b>	0	18	36.0794874
<b>Scale Factor</b>	0.999966916		
<b>Elevation Adjust. Factor</b>	0.9999768344		
<b>Combined Adjust. Factor</b>	0.9999437511		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive South West 0.07 miles to the station on the right. 8.4' West of back of curb, 33.5' North of North West corner of bridge, and 0.7' East of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	back of curb		2.56	8.4
<b>MK # 2</b>	NorthWest corner of bridge		10.21	33.5
<b>MK # 3</b>	Witness Post		0.21	0.7

  

Area Reference Monuments (used for Processing)		<b>Comments</b> Elevations based on digital levels, checking into PN:902 from job 061335
<b>Ref Mon # 1</b>	ARLR	
<b>Ref Mon # 2</b>	ARHP	
<b>Ref Mon # 3</b>	ARPB	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620048A	<b>Date Monumented</b> 11/9/2016	<b>Monumented By</b> AHTD	<b>County</b> SALINE	<b>Route</b> Hwy 5	<b>Job Number:</b> 061508
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	614,768.1656 0.0010
<b>Easting (M)</b>	349,622.7763 0.0010
<b>Elevation (M)*</b>	146.695 0.0026
<b>Northing (SFT)</b>	2,016,951.8900
<b>Easting (SFT)</b>	1,147,054.0586
<b>Elevation (SFT)*</b>	481.281

  

<b>Convergence Angle</b>	0 18 26.6189708
<b>Scale Factor</b>	0.999967387
<b>Elevation Adjust. Factor</b>	0.9999769793
<b>Combined Adjust. Factor</b>	0.9999443671

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>				3rd Order - Digital Levels	
<b>Elevation Datum:</b>				NAVD 88	
<b>Geoid Datum:</b>				GEOID12A	
<b>Latitude</b>		34	36	6.4242360	
<b>Longitude</b>		92	32	57.1974000	
<b>Ellipsoid Height (M):</b>		120.236		0.0090	
<b>Geoid Height (M):</b>		-26.435			

  

Location Description
<p>TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive North East 0.26 miles to the station on the right. 18.8' East of Power Pole, 15.1' mSouth of edge of pavement, 0.8' North of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048A 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	Power Pole			5.73	18.8
<b>MK # 2</b>	Edge of Pavement			4.60	15.1
<b>MK # 3</b>	Witness Post			0.24	0.8

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARHP</p> <p><b>Ref Mon # 3</b>    ARPB</p>	<p style="text-align: center;"><b>Comments</b></p> <p>levations based on digital levels, checking into PN:902 from job 061335</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630001	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	45,981.4959	
<b>Easting (M)</b>	208,134.2490	
<b>Elevation (M)*</b>	245.867	
<b>Northing (SFT)</b>	150,857.6245	
<b>Easting (SFT)</b>	682,853.7819	
<b>Elevation (SFT)*</b>	806.649	

  

<b>Convergence Angle</b>	-1	13	8.5719292
<b>Scale Factor</b>	1.000046349		
<b>Elevation Adjust. Factor</b>	0.9999614169		
<b>Combined Adjust. Factor</b>	1.0000077642		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	96	26.87	88.2		
MK # 2	NBC IN POWER POLE	282	23.45	76.9		
MK # 3	NONE					

  

<b>AZ Mark Station</b>	63001A
<b>Geodetic Azimuth</b>	96 44 48.038223
<b>Grid Azimuth</b>	97 57 56.503450

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PINNACLE	
Ref Mon # 2 MENAPORT	
Ref Mon # 3 Q-299	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630001A	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	45,919.3859	
<b>Easting (M)</b>	208,578.1130	
<b>Elevation (M)*</b>	250.168	
<b>Northing (SFT)</b>	150,653.8519	
<b>Easting (SFT)</b>	684,310.0257	
<b>Elevation (SFT)*</b>	820.760	

  

<b>Convergence Angle</b>	-1	12	58.3922685
<b>Scale Factor</b>	1.000046472		
<b>Elevation Adjust. Factor</b>	0.9999607420		
<b>Combined Adjust. Factor</b>	1.0000072122		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 20" SYCAMORE	44	33.07	108.5
<b>MK # 2</b>	SOUTHWEST CORNER OF CHAIN LINK FEN	58	33.04	108.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> MENAPORT	
<b>Ref Mon # 3</b> Q-299	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 43 44.1055272
<b>Longitude</b>	94 5 24.3148812
<b>Ellipsoid Height (M):</b>	219.393
<b>Geoid Height (M):</b>	-30.775

Location Description
<p>FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 1.69 KM (1.05 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.350 METERS NORTH OF THE CENTERLINE OF HWY. 71, 35.889 METERS SOUTHWEST OF A HOUSE TRAILER AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "63001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630002	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	50,821.3020	
<b>Easting (M)</b>	211,512.7220	
<b>Elevation (M)*</b>	202.911	
<b>Northing (SFT)</b>	166,736.2216	
<b>Easting (SFT)</b>	693,937.9888	
<b>Elevation (SFT)*</b>	665.717	

  

<b>Convergence Angle</b>	-1	11	53.6331416
<b>Scale Factor</b>	1.000035230		
<b>Elevation Adjust. Factor</b>	0.9999681577		
<b>Combined Adjust. Factor</b>	1.0000033865		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 5.64 KM (3.50 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.641 METERS EAST OF THE CENTERLINE OF HWY. 71, 4.499 METERS WEST OF A WOODEN FENCE, 2.570 METERS EAST OF THE CENTER OF CONCRETE DITCH PAVING, 75.149 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A BOX CULVERT AT LOG MILE 11.43 AND 1.150 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630002" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					63002A
MK # 2	NONE					242 50 11.38358
MK # 3	NONE					244 02 05.15926

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PINNACLE	
Ref Mon # 2 MENAPORT	
Ref Mon # 3 Q-299	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630002A	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	50,513.1509	
<b>Easting (M)</b>	210,879.9460	
<b>Elevation (M)*</b>	205.445	
<b>Northing (SFT)</b>	165,725.2292	
<b>Easting (SFT)</b>	691,861.9562	
<b>Elevation (SFT)*</b>	674.031	

  

<b>Convergence Angle</b>	-1	12	7.9623662
<b>Scale Factor</b>	1.000035940		
<b>Elevation Adjust. Factor</b>	0.9999677600		
<b>Combined Adjust. Factor</b>	1.0000036989		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 4.94 KM (3.07 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.812 METERS SOUTH OF THE CENTERLINE OF HWY. 71, 41.850 METERS EAST SOUTHEAST OF THE CENTER OF CO. RD. NO. 147, 4.343 METERS NORTH OF A WOODEN FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMUNUM CAP STAMPED "63002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NGS BENCHMARK A-300 1985	302	41.18	135.1		
MK # 2	CENTER OF TELEPHONE JUNCTION BOX	295	37.36	122.6		
MK # 3	CENTER OF TELEPHONE JUNCTION BOX	104	33.14	108.7		

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	PINNACLE	
Ref Mon # 2	MENAPORT	
Ref Mon # 3	Q-299	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630003	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	54,526.6969	
<b>Easting (M)</b>	213,356.1420	
<b>Elevation (M)*</b>	213.208	
<b>Northing (SFT)</b>	178,893.0047	
<b>Easting (SFT)</b>	699,985.9425	
<b>Elevation (SFT)*</b>	699.500	

  

<b>Convergence Angle</b>	-1	11	13.2141652
<b>Scale Factor</b>	1.000027149		
<b>Elevation Adjust. Factor</b>	0.9999665418		
<b>Combined Adjust. Factor</b>	0.9999936899		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF TELEPHONE JUNCTION BOX	210	14.41	47.3
<b>MK # 2</b>	CENTER OF TELEPHONE JUNCTION BOX	350	21.46	70.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> MENAPORT	
<b>Ref Mon # 3</b> Q-299	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 48 26.6015196
<b>Longitude</b>	94 2 23.5651632
<b>Ellipsoid Height (M):</b>	182.340
<b>Geoid Height (M):</b>	-30.868

Location Description
<p>FROM THE JCT. OF HWY. 71 AND HWY. 28 IN THE COMMUNITY OF NEEDMORE JUST NORTH OF BOLES AND SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 20.915 METERS NORTH NORTHWEST OF THE CENTERLINE OF HWY. 71, 31.609 METERS SOUTHWEST OF A GRAVEL DRIVEWAY AND 2.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630003A	<b>Date Monumented</b> 2/1/1994	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	54,026.2260				
<b>Easting (M)</b>	213,252.4770				
<b>Elevation (M)*</b>	203.762				
<b>Northing (SFT)</b>	177,251.0431				
<b>Easting (SFT)</b>	699,645.8350				
<b>Elevation (SFT)*</b>	668.509				

  

<b>Convergence Angle</b>	-1	11	15.3494282
<b>Scale Factor</b>	1.000028214		
<b>Elevation Adjust. Factor</b>	0.9999680241		
<b>Combined Adjust. Factor</b>	0.9999962372		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	14	37.02	121.4
<b>MK # 2</b>	NBC IN COMBINATION POLE	183	59.94	196.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	
<b>Ref Mon # 2</b> MENAPORT	
<b>Ref Mon # 3</b> Q-299	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 48 10.2950460
<b>Longitude</b>	94 2 27.2346360
<b>Ellipsoid Height (M):</b>	172.902
<b>Geoid Height (M):</b>	-30.860

  

Location Description
<p>FROM THE JCT. OF HWY. 71 AND HWY. 28 IN THE COMMUNITY OF NEEDMORE JUST NORTH OF BOLES AND SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 0.67 KM (0.42 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.252 METERS EAST OF THE CENTERLINE OF HWY. 71, 22.516 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "63003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630004	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	64,995.4530	
<b>Easting (M)</b>	176,731.1220	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	213,239.2487	
<b>Easting (SFT)</b>	579,825.3561	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	17.3743520
<b>Scale Factor</b>	1.000007924		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 0.52 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD, 10.50 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630004 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF RCP	279	7.55	24.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630004A	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	65,134.5280	
<b>Easting (M)</b>	177,595.7990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	213,695.5306	
<b>Easting (SFT)</b>	582,662.2172	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	57.6426018
<b>Scale Factor</b>	1.000007623		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 1.38 KM (0.86 MI) TO THE STATION ON THE RIGHT JUST BEFORE A RAILROAD CROSSING. THE STATION IS 25.48 METERS SOUTH OF THE SOUTH RAIL, 22.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 10.86 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630004A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	51	25.97	85.2
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD FS 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MENAPORT AZ MK</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	AHTD FS 2	Ref Mon # 3	MENAPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	Q 299								
Ref Mon # 2	AHTD FS 2								
Ref Mon # 3	MENAPORT AZ MK								
Comments									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630005	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	66,467.2290	
<b>Easting (M)</b>	184,467.7870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	218,067.9005	
<b>Easting (SFT)</b>	605,208.0645	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	20.9251371
<b>Scale Factor</b>	1.000004840		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.58 KM (5.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.91 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 7.63 METERS SOUTH OF THE SOUTH RAIL AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630005 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	76	42.11	138.2
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    AHTD FS 2</p> <p>Ref Mon # 3    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630005A	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	66,366.5041	
<b>Easting (M)</b>	184,026.0770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	217,737.4389	
<b>Easting (SFT)</b>	603,758.8876	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	30.9917311
<b>Scale Factor</b>	1.000005045		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.13 KM (5.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMED "630005A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    AHTD FS 2</p> <p>Ref Mon # 3    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630006	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	67,072.8230	
<b>Easting (M)</b>	188,399.1350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	220,054.7535	
<b>Easting (SFT)</b>	618,106.1621	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	51.1617233
<b>Scale Factor</b>	1.000003562		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAMONA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 12.55 KM (7.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.43 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.31 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630006 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	62	24.19	79.4
<b>MK # 2</b>	GUY POLE	237	17.52	57.5
<b>MK # 3</b>	WEST GATE POLE	82	15.43	50.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 299</p> <p><b>Ref Mon # 2</b>    AHTD FS 2</p> <p><b>Ref Mon # 3</b>    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION = 663.941 FEET</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630006A	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	67,275.1051	
<b>Easting (M)</b>	188,796.8110	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	220,718.4073	
<b>Easting (SFT)</b>	619,410.8708	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	42.1568031
<b>Scale Factor</b>	1.000003178		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 13.00 KM (8.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "630006A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A PLASTIC CULVERT	45	22.75	74.6
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD FS 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MENAPORT AZ MK</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	AHTD FS 2	Ref Mon # 3	MENAPORT AZ MK	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">ELEVATION = 632.703 FEET</td> </tr> </table>	Comments	ELEVATION = 632.703 FEET
Ref Mon # 1	Q 299								
Ref Mon # 2	AHTD FS 2								
Ref Mon # 3	MENAPORT AZ MK								
Comments									
ELEVATION = 632.703 FEET									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630007	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality <b>Elevation Datum:</b> NAVD 88 <b>Geoid Datum:</b> <b>Latitude</b> 34 56 1.4847864 <b>Longitude</b> 94 13 55.3173600 <b>Ellipsoid Height (M):</b> 168.498 <b>Geoid Height (M):</b> -30.776		
<b>Horizontal Datum</b>	NAD 83 (1997)			
<b>Northing (M)</b>	68,922.4310			
<b>Easting (M)</b>	196,095.2090			
<b>Elevation (M)*</b>	199.246			
<b>Northing (SFT)</b>	226,123.0090			
<b>Easting (SFT)</b>	643,355.6982	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td>                     TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 20.92 KM (13.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.                 </td> </tr> </table>	Location Description	TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 20.92 KM (13.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.
Location Description				
TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 20.92 KM (13.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.				
<b>Elevation (SFT)*</b>	653.693			
<b>Convergence Angle</b>	-1 17 55.7441653			
<b>Scale Factor</b>	0.999999923			
<b>Elevation Adjust. Factor</b>	0.9999687328			
<b>Combined Adjust. Factor</b>	0.9999686558			

  

SUPERCEDED CONTROL
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	83	13.90	45.6
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	254	3.25	10.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> Q 299 <b>Ref Mon # 2</b> AHTD FS 2 <b>Ref Mon # 3</b> MENAPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on NGS point Q 299</td> </tr> </table>	Comments	Elevations based on NGS point Q 299
Comments			
Elevations based on NGS point Q 299			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630007A	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,010.9431	
<b>Easting (M)</b>	196,647.8610	
<b>Elevation (M)*</b>	199.669	
<b>Northing (SFT)</b>	226,413.4025	
<b>Easting (SFT)</b>	645,168.8573	
<b>Elevation (SFT)*</b>	655.081	

  

<b>Convergence Angle</b>	-1	17	43.1214933
<b>Scale Factor</b>	0.999999744		
<b>Elevation Adjust. Factor</b>	0.9999686664		
<b>Combined Adjust. Factor</b>	0.9999684104		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 21.49 KM (13.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.05 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 13.10 METERS SOUTH OF THE SOUTH RAIL, 6.08 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    AHTD FS 2</p> <p>Ref Mon # 3    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on NGS point Q 299</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630008	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	68,928.2180	
<b>Easting (M)</b>	199,543.2840	
<b>Elevation (M)*</b>	193.157	
<b>Northing (SFT)</b>	226,141.9952	
<b>Easting (SFT)</b>	654,668.2576	
<b>Elevation (SFT)*</b>	633.716	

  

<b>Convergence Angle</b>	-1	16	36.7056584
<b>Scale Factor</b>	0.999999775		
<b>Elevation Adjust. Factor</b>	0.9999696883		
<b>Combined Adjust. Factor</b>	0.9999694633		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST CONCRETE GUARD RAIL POST	54	9.75	32.0
MK # 2	PIPE CORNER POST	91	18.84	61.8
MK # 3	EAST GATE POST	260	6.40	21.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	Elevations based on NGS point Q 299
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 56 4.1872884
<b>Longitude</b>	94 11 39.4888236
<b>Ellipsoid Height (M):</b>	162.448
<b>Geoid Height (M):</b>	-30.714

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 24.33 KM (15.12 MI) TO THE STATION ON THE RIGHT SET JUST WEST OF A BRIDGE. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28, 8.40 METERS EAST OF A FIELD ENTRANCE AND 0.82 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 411.131 METERS.</p>

<b>AZ Mark Station</b>	630008A
<b>Geodetic Azimuth</b>	78 36 47.146680
<b>Grid Azimuth</b>	79 53 23.778848

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630008A	<b>Date Monumented</b> 8/9/1911	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,000.3850	
<b>Easting (M)</b>	199,948.0140	
<b>Elevation (M)*</b>	201.991	
<b>Northing (SFT)</b>	226,378.7631	
<b>Easting (SFT)</b>	655,996.1093	
<b>Elevation (SFT)*</b>	662.699	

  

<b>Convergence Angle</b>	-1	16	27.4645914
<b>Scale Factor</b>	0.999999632		
<b>Elevation Adjust. Factor</b>	0.9999683020		
<b>Combined Adjust. Factor</b>	0.9999679340		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TETEPHONE JUNCTION BOX	248	35.12	115.2
<b>MK # 2</b>	CHAIN LINK FENCE CORNER POST	246	17.79	58.4
<b>MK # 3</b>	EAST GATE POST OF A CHAIN LINK POST	77	15.07	49.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 299 <b>Ref Mon # 2</b> AHTD FS 2 <b>Ref Mon # 3</b> MENAPORT AZ MK	Elevations based on NGS point Q 299

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 34 56 6.8209080

**Longitude** 94 11 23.6079492

**Ellipsoid Height (M):** 171.305

**Geoid Height (M):** -30.706

  

**Location Description**

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 24.75 KM (15.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.30 METERS WEST OF THE CENTER OF A PAVE ROAD, 12.08 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630008A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 411.131 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630009	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40103
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	68,940.3901
<b>Easting (M)</b>	207,977.9360
<b>Elevation (M)*</b>	202.608
<b>Northing (SFT)</b>	226,181.9299
<b>Easting (SFT)</b>	682,340.9450
<b>Elevation (SFT)*</b>	664.723

  

<b>Convergence Angle</b>	-1	13	23.3552851
<b>Scale Factor</b>	0.999999429		
<b>Elevation Adjust. Factor</b>	0.9999682052		
<b>Combined Adjust. Factor</b>	0.9999676342		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH GATE POST	5	18.22	59.8
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	177	38.41	126.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	Elevations based on NGS point Q 299
<b>Ref Mon # 2</b> AHTD FS 2	
<b>Ref Mon # 3</b> MENAPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630009A	<b>Date Monumented</b> 8/9/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40103
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,455.3680	
<b>Easting (M)</b>	207,945.2250	
<b>Elevation (M)*</b>	203.890	
<b>Northing (SFT)</b>	227,871.4865	
<b>Easting (SFT)</b>	682,233.6257	
<b>Elevation (SFT)*</b>	668.929	

  

<b>Convergence Angle</b>	-1	13	24.3572916
<b>Scale Factor</b>	0.999998525		
<b>Elevation Adjust. Factor</b>	0.9999680040		
<b>Combined Adjust. Factor</b>	0.9999665291		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL CORNER POST	350	15.00	49.2
<b>MK # 2</b>	COMBINATION POLE	325	20.29	66.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	Elevations based on NGS point Q 299
<b>Ref Mon # 2</b> AHTD FS 2	
<b>Ref Mon # 3</b> MENAPORT AZ MK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630010	<b>Date Monumented</b> 9/10/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,078.6670	
<b>Easting (M)</b>	203,799.4920	
<b>Elevation (M)*</b>	195.091	
<b>Northing (SFT)</b>	226,635.5933	
<b>Easting (SFT)</b>	668,632.1667	
<b>Elevation (SFT)*</b>	640.061	

  

<b>Convergence Angle</b>	-1	14	59.2123908
<b>Scale Factor</b>	0.999999344		
<b>Elevation Adjust. Factor</b>	0.9999693848		
<b>Combined Adjust. Factor</b>	0.9999687288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.30 KM (2.67 MI) TO THE JUNCTION OF A GRAVEL DRIVEWAY ON THE LEFT, GO LEFT, SOUTH ON THE DRIVEWAY FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    AHTD FS 2</p> <p>Ref Mon # 3    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on NGS point Q 299</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630010A	<b>Date Monumented</b> 8/10/1999	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 28	<b>Job Number:</b> R40103
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,395.9360	
<b>Easting (M)</b>	203,689.1550	
<b>Elevation (M)*</b>	204.332	
<b>Northing (SFT)</b>	227,676.5000	
<b>Easting (SFT)</b>	668,270.1694	
<b>Elevation (SFT)*</b>	670.379	

  

<b>Convergence Angle</b>	-1	15	1.9005714
<b>Scale Factor</b>	0.999998790		
<b>Elevation Adjust. Factor</b>	0.9999679347		
<b>Combined Adjust. Factor</b>	0.9999667247		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.70 KM (2.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.72 METERS EAST OF THE CENTER OF STATE HIGHWAY 28, 5.86 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF A PLASTIC CULVERT	208	4.03	13.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 299</p> <p><b>Ref Mon # 2</b>    AHTD FS 2</p> <p><b>Ref Mon # 3</b>    MENAPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on NGS point Q 299</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630011	<b>Date Monumented</b> 8/7/2000	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 248	<b>Job Number:</b> R40118
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	63,174.3117	
<b>Easting (M)</b>	202,896.1585	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	207,264.3876	
<b>Easting (SFT)</b>	665,668.4800	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	15	16.9561974
<b>Scale Factor</b>	1.000010214		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 248 FOR 4.65 KM (2.89 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS SOUTH SOUTHWEST OF THE CENTER OF STATE HIGHWAY 248, 6.60 METERS NORTH NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011 2000" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	292	17.65	57.9
MK # 2	NONE			
MK # 3	NONE			

  

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MENAPORT AZ MK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>630007</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	Q 299	Ref Mon # 2	MENAPORT AZ MK	Ref Mon # 3	630007	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 140px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	Q 299										
Ref Mon # 2	MENAPORT AZ MK										
Ref Mon # 3	630007										
Comments											

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630011A	<b>Date Monumented</b> 8/7/2000	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 2481	<b>Job Number:</b> R40118
---------------------------	------------------------------------	------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	63,057.9177	
<b>Easting (M)</b>	203,193.8177	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	206,882.5183	
<b>Easting (SFT)</b>	666,645.0502	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	15	10.0787139
<b>Scale Factor</b>	1.000010424		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 248 FOR 4.33 KM (2.69 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.65 METERS NORTH OF THE CENTER OF STATE HIGHWAY 248 AND 0.82 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    MENAPORT AZ MK</p> <p>Ref Mon # 3    630007</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630012	<b>Date Monumented</b> 6/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> 040787
--------------------------	------------------------------------	-------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	627,367.9117	0.0020
<b>Easting (M)</b>	198,752.4972	0.0020
<b>Elevation (M)*</b>	349.092	

  

<b>Northing (SFT)</b>	2,058,289.5570	
<b>Easting (SFT)</b>	652,073.8179	
<b>Elevation (SFT)*</b>	1,145.313	

  

<b>Convergence Angle</b>	-1	13	46.0369463
<b>Scale Factor</b>	0.999985233		
<b>Elevation Adjust. Factor</b>	0.9999452191		
<b>Combined Adjust. Factor</b>	0.9999304529		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.95 MILES TO THE MARK ON THE RIGHT, NORTHWEST 46' OF THE C/L OF THE HIGHWAY AND SOUTHWEST 12' OF THE C/L OF FOREST ROAD M 38. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance			
			Meters	Feet		
<b>MK # 1</b>	BENCH MARK K 300	292			<b>AZ Mark Station</b>	630012A
<b>MK # 2</b>		19.66			<b>Geodetic Azimuth</b>	
<b>MK # 3</b>					<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARGS <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARLR, ARRV	<div style="border: 1px solid black; padding: 5px;"> <b>Comments</b>                   ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 &amp; K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.             </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630012A	<b>Date Monumented</b> 6/5/2019	<b>Monumented By</b> ARDOT	<b>County</b> SCOTT	<b>Route</b> 7	<b>Job Number:</b> 040787
---------------------------	------------------------------------	-------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	627,758.7353	0.0020			
<b>Easting (M)</b>	199,151.8726	0.0020			
<b>Elevation (M)*</b>	339.380				
<b>Northing (SFT)</b>	2,059,571.7841				
<b>Easting (SFT)</b>	653,384.1020				
<b>Elevation (SFT)*</b>	1,113.448				

  

<b>Convergence Angle</b>	-1	13	37.4402236
<b>Scale Factor</b>	0.999985961		
<b>Elevation Adjust. Factor</b>	0.9999467431		
<b>Combined Adjust. Factor</b>	0.9999327049		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	C/L WEST HDWL	226	4.72	15.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARGS	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 & K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.
Ref Mon # 2: ARHP	
Ref Mon # 3: ARLR, ARRV	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	34 42 2.5867188
<b>Longitude</b>	94 11 32.6455764
<b>Ellipsoid Height (M):</b>	308.877 0.0110
<b>Geoid Height (M):</b>	-30.470 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 18.8' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630013	<b>Date Monumented</b> 4/20/2021	<b>Monumented By</b> ARDOT	<b>County</b> SCOTT	<b>Route</b> 378	<b>Job Number:</b> 040869
--------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	78,390.6761	0.0030			
<b>Easting (M)</b>	200,087.2996	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	257,186.7432				
<b>Easting (SFT)</b>	656,453.0821				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	16	29.0616427
<b>Scale Factor</b>	0.999984116		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	298	1.06	3.5
MK # 2	SOUTHEAST CORNER METAL BLDGING	282	21.12	69.3
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV, OKMC	ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    35    1    11.5628268

**Longitude**    94    11    26.3524992

**Ellipsoid Height (M):**    164.568    0.0110

**Geoid Height (M):**    -30.755    0.0110

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON THE LEFT, NORTHWEST 13.3' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 630013A	<b>Date Monumented</b> 4/20/2021	<b>Monumented By</b> ARDOT	<b>County</b> SCOTT	<b>Route</b> 378	<b>Job Number:</b> 040869
---------------------------	-------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	78,782.8674	0.0030			
<b>Easting (M)</b>	200,395.8399	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	258,473.4575				
<b>Easting (SFT)</b>	657,465.3514				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	16	22.1812956
<b>Scale Factor</b>	0.999983505		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.4 MILES TO THE MARK ON THE LEFT, WEST 12.4' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARDQ	ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV, OKMC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640001	<b>Date Monumented</b> 5/15/1995	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 009829
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	177,801.3090	
<b>Easting (M)</b>	335,894.6370	
<b>Elevation (M)*</b>	202.022	
<b>Northing (SFT)</b>	583,336.4613	
<b>Easting (SFT)</b>	1,102,014.3216	
<b>Elevation (SFT)*</b>	662.801	

  

<b>Convergence Angle</b>	0	24	48.2448199
<b>Scale Factor</b>	0.999954502		
<b>Elevation Adjust. Factor</b>	0.9999682972		
<b>Combined Adjust. Factor</b>	0.9999228006		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	2" STEEL GATE POST	5	9.00	29.5
<b>MK # 2</b>	2" STEEL GATE POST	72	2.40	7.9
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA 1953	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-6 ON JOB NO. 009829.
<b>Ref Mon # 2</b> EVANS AZ 1954	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640001A	<b>Date Monumented</b> 5/15/1995	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 009829
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	177,335.4319	
<b>Easting (M)</b>	335,749.6310	
<b>Elevation (M)*</b>	199.766	
<b>Northing (SFT)</b>	581,807.9962	
<b>Easting (SFT)</b>	1,101,538.5810	
<b>Elevation (SFT)*</b>	655.399	

  

<b>Convergence Angle</b>	0	24	51.5328947
<b>Scale Factor</b>	0.999954058		
<b>Elevation Adjust. Factor</b>	0.9999686512		
<b>Combined Adjust. Factor</b>	0.9999227106		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	300	1.30	4.3
MK # 2	NONE			
MK # 3	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td style="width: 85%;">VERONA 1953</td> </tr> <tr> <td>Ref Mon # 2</td> <td>EVANS AZ 1954</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	VERONA 1953	Ref Mon # 2	EVANS AZ 1954	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-5 ON JOB NO. 009829.</td> </tr> </table>	Comments	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-5 ON JOB NO. 009829.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	VERONA 1953										
Ref Mon # 2	EVANS AZ 1954										
Ref Mon # 3	NONE										
Comments											
THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-5 ON JOB NO. 009829.											

  

Location Description	
<p>FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 0.773 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A POWER POLE IN A HAY FIELD. THE STATION IS 58.0 METERS WEST OF THE CENTER OF HWY. 65 AND 1.25 METERS EAST OF A WITNESS POST SET NEXT TO THE POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

  

<b>AZ Mark Station</b>	640001
<b>Geodetic Azimuth</b>	16 52 28.763275
<b>Grid Azimuth</b>	17 17 20.31006

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640002	<b>Date Monumented</b> 5/15/1995	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 009829
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	181,843.7159	
<b>Easting (M)</b>	332,673.1920	
<b>Elevation (M)*</b>	288.381	
<b>Northing (SFT)</b>	596,598.9246	
<b>Easting (SFT)</b>	1,091,445.2974	
<b>Elevation (SFT)*</b>	946.130	

  

<b>Convergence Angle</b>	0	26	3.7412803
<b>Scale Factor</b>	0.999958551		
<b>Elevation Adjust. Factor</b>	0.9999547457		
<b>Combined Adjust. Factor</b>	0.9999132985		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	8" SASSAFRAS TREE	0			12.77	41.9
MK # 2	10" BLACK GUM TREE	190			25.20	82.7
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> VERONA 1953 <b>Ref Mon # 2</b> EVANS AZ 1954 <b>Ref Mon # 3</b> NONE	<b>Comments</b> THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.
---	--

  

Location Description			
FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 7.049 KM (4.38 MILES) TO THE STATION ON THE LEFT IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 16.4 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640002A	<b>Date Monumented</b> 5/15/1995	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 009829
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	181,442.9243	
<b>Easting (M)</b>	332,728.6652	
<b>Elevation (M)*</b>	285.650	
<b>Northing (SFT)</b>	595,283.9941	
<b>Easting (SFT)</b>	1,091,627.2957	
<b>Elevation (SFT)*</b>	937.170	

  

<b>Convergence Angle</b>	0	26	2.3823931
<b>Scale Factor</b>	0.999958130		
<b>Elevation Adjust. Factor</b>	0.9999551742		
<b>Combined Adjust. Factor</b>	0.9999133061		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>	35	57	59.3847000
<b>Longitude</b>	92	44	44.9711880
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>	181,442.9243		
<b>Grid Easting (Meters)</b>	332,728.6652		

  

Location Description			
<p>FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 6.647 KM (4.13 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "BUFFALO OUTDOOR CENTER" IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 23.2 METERS SOUTH OF A CONCRETE DRIVEWAY, 8.20 METERS SOUTHWEST OF THE CENTER OF HWY. 65 AND 1.13 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST SIGN POST OF BUFFALO OUTDOOR SI	243	1.98	6.5
MK # 2	WOODEN FENCE CORNER	330	16.40	53.8
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    VERONA 1953</p> <p>Ref Mon # 2    EVANS AZ 1954</p> <p>Ref Mon # 3    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640003	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality <b>Elevation Datum:</b> NGVD 29 <b>Geoid Datum:</b> <b>Latitude</b> 35 59 5.1576684 <b>Longitude</b> 92 44 59.0954712 <b>Ellipsoid Height (M):</b> 159.116 <b>Geoid Height (M):</b> -28.839				
<b>Horizontal Datum</b>	NAD 83 (1986)					
<b>Northing (M)</b>	183,472.7129					
<b>Easting (M)</b>	332,390.2270					
<b>Elevation (M)*</b>	187.955					
<b>Northing (SFT)</b>	601,943.3922	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;">                     TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST ( THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE ) GO SOUTH ON HWY-65 FOR 2.41 KM. (1.50 ML) TO THE NORTH END OF A NEW BRIDGE OVER THE BUFFALO RIVER AND THE STATION ON THE RIGHT. 10.4 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-65 AND 2.56 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.                 </td> </tr> </table>	Location Description		TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST ( THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE ) GO SOUTH ON HWY-65 FOR 2.41 KM. (1.50 ML) TO THE NORTH END OF A NEW BRIDGE OVER THE BUFFALO RIVER AND THE STATION ON THE RIGHT. 10.4 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-65 AND 2.56 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	
Location Description						
TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST ( THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE ) GO SOUTH ON HWY-65 FOR 2.41 KM. (1.50 ML) TO THE NORTH END OF A NEW BRIDGE OVER THE BUFFALO RIVER AND THE STATION ON THE RIGHT. 10.4 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-65 AND 2.56 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.						
<b>Easting (SFT)</b>	1,090,516.9364					
<b>Elevation (SFT)*</b>	616.649					
<b>Convergence Angle</b>	0 26 10.6013012					
<b>Scale Factor</b>	0.999960304					
<b>Elevation Adjust. Factor</b>	0.9999705046					
<b>Combined Adjust. Factor</b>	0.9999308098					

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SQUARE CUT SW WING OF BUFFALO RIVER BRIDGE	94	3.79	12.4
<b>MK # 2</b>	PUNCH POINT IN TOP GUARD RAIL POST	0	4.13	13.5
<b>MK # 3</b>	PUNCH POINT IN TOP OF GUARD RAIL POST	317	9.13	30.0

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> VERONA <b>Ref Mon # 2</b> BURLINGTON <b>Ref Mon # 3</b> 640002	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.                 </td> </tr> </table>	Comments	THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.
Comments			
THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640003A	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	183,124.2369				
<b>Easting (M)</b>	332,778.1350				
<b>Elevation (M)*</b>	201.507				
<b>Northing (SFT)</b>	600,800.1006				
<b>Easting (SFT)</b>	1,091,789.5979				
<b>Elevation (SFT)*</b>	661.111				

  

<b>Convergence Angle</b>	0	26	1.5291095
<b>Scale Factor</b>	0.999959926		
<b>Elevation Adjust. Factor</b>	0.9999683780		
<b>Combined Adjust. Factor</b>	0.9999283052		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RIGHT OF WAY MARKER, REBAR W/CAP	347	27.67	90.8
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 VERONA	THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.
Ref Mon # 2 BURLINGTON	
Ref Mon # 3 640002	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640004	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	186,160.2619	
<b>Easting (M)</b>	329,953.5660	
<b>Elevation (M)*</b>	272.475	
<b>Northing (SFT)</b>	610,760.7926	
<b>Easting (SFT)</b>	1,082,522.6578	
<b>Elevation (SFT)*</b>	893.945	

  

<b>Convergence Angle</b>	0	27	7.6962390
<b>Scale Factor</b>	0.999963321		
<b>Elevation Adjust. Factor</b>	0.9999572416		
<b>Combined Adjust. Factor</b>	0.9999205642		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD TIE GATE POST	141	7.92	26.0
<b>MK # 2</b>	GUY POLE W/TBM-12	61	19.75	64.8
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NGVD 29

**Geoid Datum:**

**Latitude** 36 0 31.7414556

**Longitude** 92 46 37.2137448

**Ellipsoid Height (M):** 243.611

**Geoid Height (M):** -28.864

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 3.30 KM. ( 2.05 MI.) TO THE STATION ON THE RIGHT. 10.2 METERS SOUTHWEST OF THE CENTER OF HWY-65, 10.1 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE WITH A GATE WITH THE NAME "LANE" ON IT AND 1.55 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640004A	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	186,446.7409	
<b>Easting (M)</b>	329,613.0260	
<b>Elevation (M)*</b>	275.077	
<b>Northing (SFT)</b>	611,700.6824	
<b>Easting (SFT)</b>	1,081,405.4028	
<b>Elevation (SFT)*</b>	902.482	

  

<b>Convergence Angle</b>	0	27	15.6619588
<b>Scale Factor</b>	0.999963653		
<b>Elevation Adjust. Factor</b>	0.9999568333		
<b>Combined Adjust. Factor</b>	0.9999204879		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks			
Description		Azimuth	Distance
			Meters    Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    VERONA	
Ref Mon # 2    BURLINGTON	
Ref Mon # 3    640002	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36    0    40.9487292
<b>Longitude</b>	92    46    50.9029212
<b>Ellipsoid Height (M):</b>	246.210
<b>Geoid Height (M):</b>	-28.867

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 2.82 KM. (1.75 MI.) TO THE STATION ON THE RIGHT. 56.2 METERS NORTHWEST OF THE CENTER OF A DRIVEWAY, 11.9 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.72 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	640004
<b>Geodetic Azimuth</b>	129 37 04.22433
<b>Grid Azimuth</b>	130 04 19.92758

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640005	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	191,903.0530	
<b>Easting (M)</b>	321,619.3340	
<b>Elevation (M)*</b>	338.455	
<b>Northing (SFT)</b>	629,601.9331	
<b>Easting (SFT)</b>	1,055,179.4316	
<b>Elevation (SFT)*</b>	1,110.414	

  

<b>Convergence Angle</b>	0	30	22.5315898
<b>Scale Factor</b>	0.999970321		
<b>Elevation Adjust. Factor</b>	0.9999468882		
<b>Combined Adjust. Factor</b>	0.9999172108		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	311	52.50	172.2
<b>MK # 2</b>	WATER VALVE	93	33.25	109.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 35.8000416
<b>Longitude</b>	92 52 12.0404208
<b>Ellipsoid Height (M):</b>	309.542
<b>Geoid Height (M):</b>	-28.913

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE, GO NORTH ON HWY-65 FOR 0.56KM. (0.35 MI.) TO THE STATION ON THE RIGHT. 48.5 METERS SOUTH-SOUTHEAST OF THE CENTER OF A DRIVEWAY, 9.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	640005A
<b>Geodetic Azimuth</b>	116 52 44.99952
<b>Grid Azimuth</b>	117 23 07.59126

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640005A	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	191,672.1080				
<b>Easting (M)</b>	322,065.1510				
<b>Elevation (M)*</b>	343.538				
<b>Northing (SFT)</b>	628,844.2410				
<b>Easting (SFT)</b>	1,056,642.0829				
<b>Elevation (SFT)*</b>	1,127.091				

  

<b>Convergence Angle</b>	0	30	12.1186732
<b>Scale Factor</b>	0.999970026		
<b>Elevation Adjust. Factor</b>	0.9999460906		
<b>Combined Adjust. Factor</b>	0.9999161182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	114	28.12	92.2
<b>MK # 2</b>	COMBINATION POLE	297	24.85	81.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	
<b>Ref Mon # 2</b> BURLINGTON	
<b>Ref Mon # 3</b> 640002	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NGVD 29		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	3	28.4347476
<b>Longitude</b>	92	51	54.1457100
<b>Ellipsoid Height (M):</b>	314.626		
<b>Geoid Height (M):</b>	-28.912		

  

Location Description
<p>THE STATION IS LOCATED JUST NORTH OF THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE. 48.87 METERS NORTHWEST OF THE CENTER OF HWY-235, 12.47 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 1.38 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640006	<b>Date Monumented</b> 6/26/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> R90098
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	193,590.2889	
<b>Easting (M)</b>	314,937.5080	
<b>Elevation (M)*</b>	380.444	
<b>Northing (SFT)</b>	635,137.4728	
<b>Easting (SFT)</b>	1,033,257.4742	
<b>Elevation (SFT)*</b>	1,248.173	

  

<b>Convergence Angle</b>	0	32	58.2665907
<b>Scale Factor</b>	0.999972474		
<b>Elevation Adjust. Factor</b>	0.9999402995		
<b>Combined Adjust. Factor</b>	0.9999127751		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.41KM. (1.50 MI.) TO THE STATION ON THE LEFT. 42.23 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST DRIVEWAY, 51.68 METERS NORTH OF THE CENTER OF THE SOUTHERN MOST DRIVEWAY, 9.0 METERS WEST OF THE CENTER OF HWY-65 AND 12.40 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE WITH TBM-1	348	12.64	41.5
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	510007
<b>Geodetic Azimuth</b>	328 34 26.10780
<b>Grid Azimuth</b>	329 07 24.34801

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	
Ref Mon # 2 BURLINGTON	
Ref Mon # 3 640002	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640007	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090280
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	167,002.8889	
<b>Easting (M)</b>	348,053.0520	
<b>Elevation (M)*</b>	310.619	
<b>Northing (SFT)</b>	547,908.6447	
<b>Easting (SFT)</b>	1,141,904.0548	
<b>Elevation (SFT)*</b>	1,019.089	

  

<b>Convergence Angle</b>	0	20	4.5230817
<b>Scale Factor</b>	0.999945656		
<b>Elevation Adjust. Factor</b>	0.9999512561		
<b>Combined Adjust. Factor</b>	0.9998969148		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 33.83 METERS SOUTHEAST OF THE CENTER OF SEARCY COUNTY ROAD NUMBER 43, 17.38 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.97 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
MK # 2	CENTER OF HEADWALL	356	12.96	42.5
MK # 3	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&amp;GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640007-1	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> RX0021
----------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	310.632	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	1,019.132	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999512541
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
<b>MK # 2</b>	CENTER OF HEADWALL	356	12.96	42.5
<b>MK # 3</b>	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.
<b>Ref Mon # 2</b> EVANS AZ	
<b>Ref Mon # 3</b> 640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640007A	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090280
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,529.8810	
<b>Easting (M)</b>	347,793.2540	
<b>Elevation (M)*</b>	303.705	
<b>Northing (SFT)</b>	549,637.6179	
<b>Easting (SFT)</b>	1,141,051.7008	
<b>Elevation (SFT)*</b>	996.405	

  

<b>Convergence Angle</b>	0	20	10.6187470
<b>Scale Factor</b>	0.999946023		
<b>Elevation Adjust. Factor</b>	0.9999523411		
<b>Combined Adjust. Factor</b>	0.9998983666		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 2.17 KM. (1.35 MI.) TO THE STATION ON THE LEFT, 24.0 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 21.72 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.17 METERS EAST-NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
MK # 2	NORTHWEST END OF METAL PIPE	125	21.65	71.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARHR</p> <p>Ref Mon # 3    ARBT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&amp;GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640007A-1	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> RX0021
-----------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	303.709	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	996.419	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>	#Error		
<b>Elevation Adjust. Factor</b>	0.9999523404		
<b>Combined Adjust. Factor</b>	#Type!		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
<b>MK # 2</b>	NORTHWEST END OF METAL PIPE	125	21.65	71.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.
<b>Ref Mon # 2</b> EVANS AZ	
<b>Ref Mon # 3</b> 640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640008	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> RX0021
--------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	174,930.8740	
<b>Easting (M)</b>	340,046.3950	
<b>Elevation (M)*</b>	287.650	
<b>Northing (SFT)</b>	573,919.0424	
<b>Easting (SFT)</b>	1,115,635.5476	
<b>Elevation (SFT)*</b>	943.732	

  

<b>Convergence Angle</b>	0	23	11.4127457
<b>Scale Factor</b>	0.999951880		
<b>Elevation Adjust. Factor</b>	0.9999548604		
<b>Combined Adjust. Factor</b>	0.9999067425		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	262	8.33	27.3
<b>MK # 2</b>	RIGHT OF WAY MARKER SIGN	358	22.84	74.9
<b>MK # 3</b>	WOODEN FENCE POST	98	34.65	113.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION =289.932 METERS.
<b>Ref Mon # 2</b> EVANS AZ	
<b>Ref Mon # 3</b> 640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640008A	<b>Date Monumented</b> 10/30/1996	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> RX0021,090452
---------------------------	--------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	174,867.2735	0.0019
<b>Easting (M)</b>	340,768.5530	0.0022
<b>Elevation (M)*</b>	286.303	
<b>Northing (SFT)</b>	573,710.3798	
<b>Easting (SFT)</b>	1,118,004.8276	
<b>Elevation (SFT)*</b>	939.312	

  

<b>Convergence Angle</b>	0	22	54.6434509
<b>Scale Factor</b>	0.999951828		
<b>Elevation Adjust. Factor</b>	0.9999550717		
<b>Combined Adjust. Factor</b>	0.9999069019		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	54	27.9046656
<b>Longitude</b>	92	39	22.3396704
<b>Ellipsoid Height:</b>	257.558		
<b>Grid Northing (Meters)</b>	174,867.6549		
<b>Grid Easting (Meters)</b>	340,768.5580		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 333 ON THE NORTH END OF MARSHALL GO EASTERLY ON HWY-65 FOR 1.21 KM. (0.75 MI.) TO A PAVED ROAD RIGHT LEADING TO THE AIRPORT AND THE INDUSTRIAL PARK AND THE STATION ON THE RIGHT. 21.46 METERS SOUTH-SOUTHEAST OF THE CENTER OF HWY-65, 5.32 METERS WEST OF THE PAVED ROAD AND 1.88 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHWEST CORNER OF ROCK ENTRANCE POST	146	2.08	6.8	
MK # 2	WOODEN FENCE CORNER POST	251	7.28	23.9	
MK # 3	WEST END OF A METAL DRAIN PIPE	303	5.60	18.4	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> VERONA <b>Ref Mon # 2</b> EVANS AZ <b>Ref Mon # 3</b> 640001	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION = 289.932.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640009	<b>Date Monumented</b> 9/25/2003	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 74	<b>Job Number:</b> 009831
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	175,461.3559	
<b>Easting (M)</b>	328,038.0210	
<b>Elevation (M)*</b>	276.241	
<b>Northing (SFT)</b>	575,659.4651	
<b>Easting (SFT)</b>	1,076,238.0739	
<b>Elevation (SFT)*</b>	906.300	

  

<b>Convergence Angle</b>	0	27	50.1935115
<b>Scale Factor</b>	0.999952274		
<b>Elevation Adjust. Factor</b>	0.9999566507		
<b>Combined Adjust. Factor</b>	0.9999089268		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY	78	11.10	36.4
<b>MK # 2</b>	POWER POLE	70	18.45	60.5
<b>MK # 3</b>	FENCE CORNER	50	16.50	54.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> CONWAY CORS	ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.
<b>Ref Mon # 2</b> W. H. PHILLIPS	
<b>Ref Mon # 3</b> TRI COUNTY	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 54 44.1189108
<b>Longitude</b>	92 47 50.2457712
<b>Ellipsoid Height (M):</b>	248.072
<b>Geoid Height (M):</b>	-28.096

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 65 AND HIGHWAY 74, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.9 MILES TO A GRAVEL DRIVE ON THE LEFT THAT LEADS TO McDANIEL CEMETERY, TURN LEFT HERE AND GO 0.05 MILES TO THE STATION ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE CEMETERY FENCE AND EAST 2.60 METERS OF THE DRIVE AND NORTH 3.30 OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640009A	<b>Date Monumented</b> 9/25/2003	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 74	<b>Job Number:</b> 009831
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	176,140.6559	
<b>Easting (M)</b>	328,843.3180	
<b>Elevation (M)*</b>	259.872	
<b>Northing (SFT)</b>	577,888.1352	
<b>Easting (SFT)</b>	1,078,880.1191	
<b>Elevation (SFT)*</b>	852.595	

  

<b>Convergence Angle</b>	0	27	31.6301063
<b>Scale Factor</b>	0.999952896		
<b>Elevation Adjust. Factor</b>	0.9999592193		
<b>Combined Adjust. Factor</b>	0.9999121173		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 65, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.05 MILES TO COUNTY ROAD 34 ON THE RIGHT, TURN RIGHT HERE AND GO 0.20 MILES TO THE STATION ON THE LEFT, NORTH 4.90 METERS OF THE CENTERLINE AND SOUTH 1.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009A 2003" ON TOP OF A 0.87 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> CONWAY CORS <b>Ref Mon # 2</b> W. H. PHILLIPS <b>Ref Mon # 3</b> TRI COUNTY	<b>Comments</b>  ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640010	<b>Date Monumented</b> 9/25/2003	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 377	<b>Job Number:</b> BR6401
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,109.1199	
<b>Easting (M)</b>	325,599.9120	
<b>Elevation (M)*</b>	238.344	
<b>Northing (SFT)</b>	567,942.1709	
<b>Easting (SFT)</b>	1,068,239.0446	
<b>Elevation (SFT)*</b>	781.968	

  

<b>Convergence Angle</b>	0	28	46.3210202
<b>Scale Factor</b>	0.999950213		
<b>Elevation Adjust. Factor</b>	0.9999625974		
<b>Combined Adjust. Factor</b>	0.9999128123		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BLACK WALNUT	69	21.00	68.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CONWAY CORS	3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *NOTE: REPORTED DESTROYED IN AUG. 2012 BY S5112 & REPLACED WITH GPS 640014.
Ref Mon # 2 W. H. PHILLIPS	
Ref Mon # 3 TRI COUNTY	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 53 27.1482756
<b>Longitude</b>	92 49 26.7015072
<b>Ellipsoid Height (M):</b>	210.211
<b>Geoid Height (M):</b>	-28.058

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 TO COUNTY ROAD 5 ON THE LEFT, TURN LEFT ON COUNTY ROAD 5 AND GO 0.35 MILES TO THE STATION ON THE RIGHT, SOUTH 3.60 METERS OF THE CENTERLINE AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640010A	<b>Date Monumented</b> 9/25/2003	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 377	<b>Job Number:</b> 009831, BR6401
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	172,461.7458	
<b>Easting (M)</b>	325,034.2921	
<b>Elevation (M)*</b>	243.596	
<b>Northing (SFT)</b>	565,818.2443	
<b>Easting (SFT)</b>	1,066,383.3400	
<b>Elevation (SFT)*</b>	799.199	

  

<b>Convergence Angle</b>	0	28	59.3179369
<b>Scale Factor</b>	0.999949670		
<b>Elevation Adjust. Factor</b>	0.9999617733		
<b>Combined Adjust. Factor</b>	0.9999114452		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	53	5.9896968
<b>Longitude</b>	92	49	49.0362564
<b>Ellipsoid Height:</b>	215.479		
<b>Grid Northing (Meters)</b>	172,461.7449		
<b>Grid Easting (Meters)</b>	325,034.3070		

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 1.6 MILES TO THE STATION ON THE RIGHT, WEST 10.2 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    CONWAY CORS Ref Mon # 2    W. H. PHILLIPS Ref Mon # 3    TRI COUNTY	<b>Comments</b> PREVIOUS ELEV. (243.601 m) BY 3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *UPDATED ELEV. BY DIGITAL LEVELS RE-RAN FROM NGS 2ND ORDER BM L 149 IN AUG. 2012 BY S5112 & CHECKED AGAINST STATIC GPS SET-UP ON 2ND ORDER NGS BM TT 72 TX. *Note: Used elev. on this monument from digital levels in final static adjustment.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640011	<b>Date Monumented</b> 12/5/2008	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 66	<b>Job Number:</b> 050164
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 165,958.3779		<b>Latitude</b> 35 49 40.5310764
<b>Easting (M)</b> 349,231.7600		<b>Longitude</b> 92 33 42.7803300
<b>Elevation (M)*</b> 296.546		<b>Ellipsoid Height (M):</b> 268.716
<b>Northing (SFT)</b> 544,481.7782		<b>Geoid Height (M):</b> -27.830
<b>Easting (SFT)</b> 1,145,771.1993		
<b>Elevation (SFT)*</b> 972.918		

  

<b>Convergence Angle</b>	0	19	<b>Scale Factor</b> 37.0541102
<b>Scale Factor</b>	0.999944950		
<b>Elevation Adjust. Factor</b>	0.9999534644		
<b>Combined Adjust. Factor</b>	0.9998984170		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Service pole	2	7.92	26.0
MK # 2	Southwest corner of a bridge	334	20.27	66.5
MK # 3	Combination pole	310	19.60	64.3

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARBT</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHR	Ref Mon # 3	ARBT	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARBT						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640012	<b>Date Monumented</b> 2/28/2011	<b>Monumented By</b> AHTD	<b>County</b> Searcy	<b>Route</b> 27	<b>Job Number:</b> 090304
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	166,819.3259	
<b>Easting (M)</b>	330,640.5100	
<b>Elevation (M)*</b>	265.094	
<b>Northing (SFT)</b>	547,306.4051	
<b>Easting (SFT)</b>	1,084,776.4066	
<b>Elevation (SFT)*</b>	869.729	

  

<b>Convergence Angle</b>	0	26	48.2299864
<b>Scale Factor</b>	0.999945447		
<b>Elevation Adjust. Factor</b>	0.9999583998		
<b>Combined Adjust. Factor</b>	0.9999038491		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of gate	262	7.01	23.0
<b>MK # 2</b>	Center of boc culvert	181	13.87	45.5
<b>MK # 3</b>	Combination pole	14	43.89	144.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> W H Phillips, P 277 <b>Ref Mon # 2</b> ARFY, ARBT <b>Ref Mon # 3</b> ARHR	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 50 4.3929024
<b>Longitude</b>	92 46 3.7607772
<b>Ellipsoid Height (M):</b>	237.161
<b>Geoid Height (M):</b>	-27.933

Location Description
To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 5 miles to the station on the right, 30 feet northwest of the centerline of Highway 27 and 18.5 feet southeast of a witness post. The station mark is a standard 2 1/2" cap stamped "640012 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

<b>AZ Mark Station</b>	640012A
<b>Geodetic Azimuth</b>	188 41 28
<b>Grid Azimuth</b>	189 08 15

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640012A	<b>Date Monumented</b> 2/28/2011	<b>Monumented By</b> AHTD	<b>County</b> Searcy	<b>Route</b> 27	<b>Job Number:</b> 090304
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	167,305.1840	
<b>Easting (M)</b>	330,718.6570	
<b>Elevation (M)*</b>	263.067	
<b>Northing (SFT)</b>	548,900.4245	
<b>Easting (SFT)</b>	1,085,032.7938	
<b>Elevation (SFT)*</b>	863.079	

  

<b>Convergence Angle</b>	0	26	46.5058141
<b>Scale Factor</b>	0.999945784		
<b>Elevation Adjust. Factor</b>	0.9999587179		
<b>Combined Adjust. Factor</b>	0.9999045042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" by 24" arched RCP w/ flared end section	196	36.58	120.0
<b>MK # 2</b>	Combination Pole	296	14.33	47.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> W H Phillips, P 277	
<b>Ref Mon # 2</b> ARFY, ARBT	
<b>Ref Mon # 3</b> ARHR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    50    20.1768504
<b>Longitude</b>	92    46    0.7977684
<b>Ellipsoid Height (M):</b>	235.128
<b>Geoid Height (M):</b>	-27.940

Location Description
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 4.7 miles to the station on the right, 29 feet west of the centerline of Highway 27 and 6 feet east of a witness post. The station mark is a standard 2 1/2" cap stamped "640012A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640013	<b>Date Monumented</b> 3/1/2011	<b>Monumented By</b> AHTD	<b>County</b> Searcy	<b>Route</b> 27	<b>Job Number:</b> 090304
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,042.7310	
<b>Easting (M)</b>	329,325.1090	
<b>Elevation (M)*</b>	289.725	
<b>Northing (SFT)</b>	538,196.8600	
<b>Easting (SFT)</b>	1,080,460.7951	
<b>Elevation (SFT)*</b>	950.539	

  

<b>Convergence Angle</b>	0	27	18.2174378
<b>Scale Factor</b>	0.999943633		
<b>Elevation Adjust. Factor</b>	0.9999545348		
<b>Combined Adjust. Factor</b>	0.9998981703		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7 miles to the station on the left, 30.5 feet east of the centerline of Highway 27 and 12.5 feet west of a witness post. The station mark is a standard 2 1/2" cap stamped "640013 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of gate	83	5.49	18.0
<b>MK # 2</b>	Center of double box culvert	232	18.29	60.0
<b>MK # 3</b>	Center of single box culvert	9	23.47	77.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> W H Phillips, P 277 <b>Ref Mon # 2</b> ARFY, ARBT <b>Ref Mon # 3</b> ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640013A	<b>Date Monumented</b> 3/1/2011	<b>Monumented By</b> AHTD	<b>County</b> Searcy	<b>Route</b> 27	<b>Job Number:</b> 090304
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,843.5980	
<b>Easting (M)</b>	329,176.8320	
<b>Elevation (M)*</b>	293.610	
<b>Northing (SFT)</b>	537,543.5378	
<b>Easting (SFT)</b>	1,079,974.3230	
<b>Elevation (SFT)*</b>	963.285	

  

<b>Convergence Angle</b>	0	27	21.6175612
<b>Scale Factor</b>	0.999943510		
<b>Elevation Adjust. Factor</b>	0.9999539251		
<b>Combined Adjust. Factor</b>	0.9998974377		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7.2 miles to the station on the right, 34.5 feet west of the centerline of Highway 27, 1.5 feet east of a witness post, 1.5 feet east of a fence and 127 feet south of the center of a gravel driveway. The station mark is a standard 2 1/2" cap stamped "640013A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    W H Phillips, P 277</p> <p><b>Ref Mon # 2</b>    ARFY, ARBT</p> <p><b>Ref Mon # 3</b>    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640014	<b>Date Monumented</b> 8/16/2012	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> N/A	<b>Job Number:</b> 009831
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,081.1041	
<b>Easting (M)</b>	325,487.1695	
<b>Elevation (M)*</b>	239.233	
<b>Northing (SFT)</b>	567,850.2557	
<b>Easting (SFT)</b>	1,067,869.1553	
<b>Elevation (SFT)*</b>	784.885	

  

<b>Convergence Angle</b>	0	28	48.9314383
<b>Scale Factor</b>	0.999950188		
<b>Elevation Adjust. Factor</b>	0.9999624579		
<b>Combined Adjust. Factor</b>	0.9999126477		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE	271	6.10	20.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: P777	ELEVATIONS FROM L 149 USING DIGITAL 3 WIRE LEVELS BY CREW S5112 ON 8/2012. CHECKED AGAINST 640009 WHICH HAD ELEVATIONS FROM K 149 USING DIGITAL 3 WIRE LEVELS AND BY OCCUPYING TT 72 TX WITH GPS BY CREW S5112 ON 8/2012 (digital level loop elev. on this monument used as constraint in final static adjustment). *Note: This monument was set to replace GPS #640010 that was found destroyed by S5112 in Aug. 2012.
Ref Mon # 2: MOBR	
Ref Mon # 3: W H PHILLIPS	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 53 26.2086504
<b>Longitude</b>	92 49 31.1875392
<b>Ellipsoid Height (M):</b>	211.176
<b>Geoid Height (M):</b>	-28.058

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 FOR 1.2 MILES TO LICK FORK ROAD ON THE LEFT, TURN LEFT HERE (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, AT THE SOUTHEAST CORNER OF THE LICK FORK BRIDGE AND SOUTH 19 FEET OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "640014 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640015	<b>Date Monumented</b> 10/7/2015	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090452
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	174,930.9713	0.0019	
<b>Easting (M)</b>	339,969.6583	0.0022	
<b>Elevation (M)*</b>	289.177	0.0013	
<b>Northing (SFT)</b>	573,919.3617		
<b>Easting (SFT)</b>	1,115,383.7873		
<b>Elevation (SFT)*</b>	948.742		

  

<b>Convergence Angle</b>	0	23	13.1936251
<b>Scale Factor</b>	0.999951880		
<b>Elevation Adjust. Factor</b>	0.9999546207		
<b>Combined Adjust. Factor</b>	0.9999065029		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE POST	174	1.40	4.6
<b>MK # 2</b>	18" CORRUGATED METAL PIPE	77	11.30	37.1
<b>MK # 3</b>	COMBINATION POLE	101	21.30	69.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> P777 <b>Ref Mon # 3</b> TRI COUNTY	Three wire ran in October 2015, by crew S5102 using NGS BM Y6.

  

**Vertical Determined By:** 3rd Order - 3 Wire Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12A

**Latitude**    35    54    29.7850968

**Longitude**    92    39    54.2184444

**Ellipsoid Height (M):**    261.080    0.0105

**Geoid Height (M):**    -28.109

**Location Description**

TO REACH FROM THE JUNCTION OF HWY. 333 AND HWY. 65 IN MARSHALL. GO EAST ON HWY. 65 FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 64 FT. SOUTH OF THE CENTERLINE OF HWY. 65, AND 4 FT. NORTH OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "640015 2015" SET ON TOP OF A 5/8 IN. BY 2 FT REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640016	<b>Date Monumented</b> 5/16/2017	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090498
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	179,325.2630	0.0030			
<b>Easting (M)</b>	334,546.2722	0.0030			
<b>Elevation (M)*</b>	196.120				
<b>Northing (SFT)</b>	588,336.3004				
<b>Easting (SFT)</b>	1,097,590.5614				
<b>Elevation (SFT)*</b>	643.436				

  

<b>Convergence Angle</b>	0	25	19.8074839
<b>Scale Factor</b>	0.999955981		
<b>Elevation Adjust. Factor</b>	0.9999692234		
<b>Combined Adjust. Factor</b>	0.9999252057		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	30	26.21	86.0
MK # 2	36" FLARED END CONCRETE CULVERT	23	26.52	87.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARHR	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 & W 346 FOR JOB #090498 IN MAY 2017.
Ref Mon # 2: P777	
Ref Mon # 3: ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640016A	<b>Date Monumented</b> 5/16/2017	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090498
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	178,808.2476	0.0030			
<b>Easting (M)</b>	334,751.6522	0.0030			
<b>Elevation (M)*</b>	196.468				
<b>Northing (SFT)</b>	586,640.0590				
<b>Easting (SFT)</b>	1,098,264.3789				
<b>Elevation (SFT)*</b>	644.579				

  

<b>Convergence Angle</b>	0	25	14.9506486		
<b>Scale Factor</b>	0.999955471				
<b>Elevation Adjust. Factor</b>	0.9999691687				
<b>Combined Adjust. Factor</b>	0.9999246411				

  

SUPERCEDED CONTROL					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.55 MILES TO THE MARK ON LEFT, NORTHEAST 40.5 FEET OF THE C/L OF THE HIGHWAY AND 5.5' NORTHWEST OF THE C/L OF A FIELD ROAD ENTRANCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FOC		316	7.16	23.5
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARHR</p> <p><b>Ref Mon # 2</b>    P777</p> <p><b>Ref Mon # 3</b>    ARRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 &amp; W 346 FOR JOB #090498 IN MAY 2017.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640017	<b>Date Monumented</b> 5/16/2017	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090498
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	189,112.4848    0.0040
<b>Easting (M)</b>	326,933.0754    0.0040
<b>Elevation (M)*</b>	240.404

  

<b>Northing (SFT)</b>	620,446.5439
<b>Easting (SFT)</b>	1,072,612.9315
<b>Elevation (SFT)*</b>	788.724

  

<b>Convergence Angle</b>	0    28    18.4463249
<b>Scale Factor</b>	0.999966835
<b>Elevation Adjust. Factor</b>	0.9999622743
<b>Combined Adjust. Factor</b>	0.9999291105

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.5 MILES TO THE MARK ON THE LEFT, WEST 31' OF THE C/L OF THE HIGHWAY, 11.6' NORTH AN ASPHALT FIELD ROAD AND EAST 8.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>P777</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	P777	Ref Mon # 3	ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 &amp; R 347 FOR JOB #090498 IN MAY 2017.         </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.
Ref Mon # 1	ARHR								
Ref Mon # 2	P777								
Ref Mon # 3	ARRV								
Comments									
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640017A	<b>Date Monumented</b> 5/16/2017	<b>Monumented By</b> AHTD	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090498
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	189,585.6884	0.0040			
<b>Easting (M)</b>	326,960.2703	0.0040			
<b>Elevation (M)*</b>	250.115				
<b>Northing (SFT)</b>	621,999.0460				
<b>Easting (SFT)</b>	1,072,702.1535				
<b>Elevation (SFT)*</b>	820.587				

  

<b>Convergence Angle</b>	0	28	17.9047509
<b>Scale Factor</b>	0.999967423		
<b>Elevation Adjust. Factor</b>	0.9999607503		
<b>Combined Adjust. Factor</b>	0.9999281746		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.8 MILES TO THE MARK ON THE RIGHT, EAST 32.3' OF THE C/L OF THE HIGHWAY AND WEST 6.8' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	173	34.44	113.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR <b>Ref Mon # 2</b> P777 <b>Ref Mon # 3</b> ARR V	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650001	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 253	<b>Job Number:</b> 40110
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 109,050.7290		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 179,194.1140		<b>Latitude</b> 35 17 30.3131328
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 25 40.0668708
<b>Northing (SFT)</b> 357,777.2667		<b>Ellipsoid Height (M):</b> 146.288
<b>Easting (SFT)</b> 587,906.0223		<b>Geoid Height (M):</b> -30.112
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 24 45.8372911	<b>Location Description</b>  FROM THE ARKANSAS-OKLAHOMA STATE LINE, GO EAST ON HWY. 253 0.45 MILES TO THE STATION ON THE LEFT, THE STATION IS 32.0 FEET NORTH OF THE CENTERLINE OF HWY. 253 IN FRONT OF TWIN CITIES CONCRETE PLANT, 78.0 FEET SOUTHEAST OF THE CONCRETE PLANT DRIVEWAY AND 2.7 FEET NORTH OF A WITNESS POST AND R/W FENCE.
<b>Scale Factor</b> 0.999948891	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TOP OF FENCE POST	79	7.40	24.3
<b>MK # 2</b>	NBC IN TOP OF FENCE POST	255	5.08	16.7
<b>MK # 3</b>	NBC IN TOP OF FENCE POST	269	13.50	44.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> GUNN <b>Ref Mon # 2</b> FORT SMITH GIS 103 <b>Ref Mon # 3</b> GEORGE	<b>Comments</b> (OLD PN = 92650001)
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650002	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 40110
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 105,660.4651		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 179,104.2820		<b>Latitude</b> 35 15 40.2608592
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 25 40.3129560
<b>Northing (SFT)</b> 346,654.3759		<b>Ellipsoid Height (M):</b> 117.586
<b>Easting (SFT)</b> 587,611.2985		<b>Geoid Height (M):</b> -30.220
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 24 45.9804879	<b>Location Description</b>  THE STATION IS 0.24 MILES SOUTH OF THE JCT. OF HWY. 253 AND HWY. 45. 117.0 FEET WEST OF THE CENTERLINE OF HWY. 45, 130.0 FEET NORTHEAST OF A 12" ELM TREE AND 3.74 FEET NORTH OF A WITNESS POST.
<b>Scale Factor</b> 0.999951738	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> GUNN	(OLD PN = 92650002)
<b>Ref Mon # 2</b> FORT SMITH GIS 103	
<b>Ref Mon # 3</b> GEORGE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650002A	<b>Date Monumented</b> 1/23/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 40110
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	105,873.7271	
<b>Easting (M)</b>	178,926.4920	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	347,354.0530	
<b>Easting (SFT)</b>	587,027.9992	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	50.1934750
<b>Scale Factor</b>	0.999951555		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS 0.07 MILES SOUTH OF JCT. OF HWY. 253 AND HWY. 45 SOUTH OF FT.SMITH, 260.0 FEET WEST OF HWY. 45 ON THE ENTRANCE ROAD TO BROWNWOOD ESTATES, 20.0 FEET NORTHEAST OF A PECAN TREE, 16.0 FEET NORTHEAST OF THE END OF A WOOD FENCE AND 2.30 FEET NORTH OF A WITNESS POST.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	235	4.77	15.7
MK # 2	NBC IN TOP OF FENCE POST	80	2.61	8.6
MK # 3	NBC IN TOP OF FENCE POST	10	19.90	65.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="GUNN"/> <b>Ref Mon # 2</b> <input type="text" value="FORT SMITH GIS 103"/> <b>Ref Mon # 3</b> <input type="text" value="GEORGE"/>	(OLD PN = 92650002A)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650003	<b>Date Monumented</b> 4/20/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 40103
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 92,218.4111		<b>Latitude</b> 35 8 35.0048472
<b>Easting (M)</b> 193,074.1520		<b>Longitude</b> 94 16 15.4967520
<b>Elevation (M)*</b> 211.202		<b>Ellipsoid Height (M):</b> 180.000
<b>Northing (SFT)</b> 302,553.2371		<b>Geoid Height (M):</b> -31.206
<b>Easting (SFT)</b> 633,444.1137		
<b>Elevation (SFT)*</b> 692.919		

  

<b>Convergence Angle</b> -1 19 17.3144313	<b>Location Description</b>  FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.10 MILES TO A PAVED COUNTY ROAD ON THE RIGHT, THE STATION IS 43 FEET WEST OF THE CENTERLINE OF HWY. 71, 32 FEET EAST OF THE CENTERLINE OF COUNTY ROAD IN A LAWN AND 2.42 FEET EAST OF A WITNESS POST.
<b>Scale Factor</b> 0.999965394	
<b>Elevation Adjust. Factor</b> 0.9999668566	
<b>Combined Adjust. Factor</b> 0.9999322518	

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

Location Reference Marks						
	Description	Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN 30" POST OAK	181	28.17	92.4	92650003A AZ. MK.	
MK # 2	NBC IN TELEPHONE POLE	158	8.69	28.5	Geodetic Azimuth	136 21 51
MK # 3	NBC IN 30" POST OAK	307	11.32	37.1	Grid Azimuth	137 41 08

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 PINNACLE Ref Mon # 2 GEORGE Ref Mon # 3 NONE	<b>Comments</b> (OLD PN = 92650003)
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650003A	<b>Date Monumented</b> 4/20/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 40103
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 91,930.5701		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 193,336.1980		<b>Latitude</b> 35 8 25.8628200
<b>Elevation (M)*</b> 216.643		<b>Longitude</b> 94 16 4.8852552
<b>Northing (SFT)</b> 301,608.8787		<b>Ellipsoid Height (M):</b> 185.441
<b>Easting (SFT)</b> 634,303.8429		<b>Geoid Height (M):</b> -31.208
<b>Elevation (SFT)*</b> 710.770		

  

<b>Convergence Angle</b> -1 19 11.1396105	<b>Location Description</b>  FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.30 MILES TO THE STATION ON THE LEFT, THE STATION IS 42 FEET NORTH OF THE CENTERLINE OF HWY. 71 AND 1.52 FEET SOUTH OF A WITNESS POST.
<b>Scale Factor</b> 0.999965734	
<b>Elevation Adjust. Factor</b> 0.9999660028	
<b>Combined Adjust. Factor</b> 0.9999317380	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN TOP OF FENCE POST	313	4.76	15.6
<b>MK # 2</b>	NBC IN TOP OF FENCE POST	123	4.16	13.6
<b>MK # 3</b>	NBC IN TOP OF FENCE POST	127	10.37	34.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	(OLD PN = 92650003A)
<b>Ref Mon # 2</b> GEORGE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650004A	<b>Date Monumented</b> 4/20/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 40103
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 98,158.1661		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 191,546.6340		<b>Latitude</b> 35 11 46.5512424
<b>Elevation (M)*</b> 162.940		<b>Longitude</b> 94 17 21.2814312
<b>Northing (SFT)</b> 322,040.5833		<b>Ellipsoid Height (M):</b> 131.882
<b>Easting (SFT)</b> 628,432.5817		<b>Geoid Height (M):</b> -31.079
<b>Elevation (SFT)*</b> 534.579		

  

<b>Convergence Angle</b> -1 19 55.5944787	<b>Scale Factor</b> 0.999958722	<b>Location Description</b>  FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 10.33 MILES TO THE BRIDGE OVER ADAMSON CREEK, THE STATION IS 21.5 FEET SOUTH OF THE SOUTHEAST BRIDGE END, 25 FEET EAST OF THE CENTERLINE OF HWY. 71 AND 2.0 FEET WEST OF A WITNESS POST.
<b>Elevation Adjust. Factor</b> 0.9999744301	<b>Combined Adjust. Factor</b> 0.9999331531	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	"X" CUT IN SE BRIDGE WINGWALL	344	3.08	10.1
<b>MK # 2</b>	"X" CUT IN TOP OF GUARD RAIL POST	328	2.84	9.3
<b>MK # 3</b>	"X" CUT IN TOP OF GUARD RAIL POST	180	5.38	17.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	(OLD PN = 92650004A)
<b>Ref Mon # 2</b> GEORGE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650005	<b>Date Monumented</b> 4/20/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 40103, 040469, 040823
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	101,181.9138	0.0030			
<b>Easting (M)</b>	189,993.2641	0.0030			
<b>Elevation (M)*</b>	191.753				
<b>Northing (SFT)</b>	331,960.9955				
<b>Easting (SFT)</b>	623,336.2340				
<b>Elevation (SFT)*</b>	629.110				

  

<b>Convergence Angle</b>	-1	20	32.9472802
<b>Scale Factor</b>	0.999955671		
<b>Elevation Adjust. Factor</b>	0.9999699086		
<b>Combined Adjust. Factor</b>	0.9999255809		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	13	23.4770448
<b>Longitude</b>	94	18	25.4634084
<b>Ellipsoid Height:</b>	160.740		
<b>Grid Northing (Meters)</b>	101,182.1581		
<b>Grid Easting (Meters)</b>	189,993.5030		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	142	3.02	9.9
MK # 2	NBC IN POWER POLE	262	47.36	155.4
MK # 3	NBC IN COMINATION POLE	286	57.00	187.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARDQ Ref Mon # 2    ARFY Ref Mon # 3    ARR V	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>PRE-HARN REF. MARKS WERE PINNACLE &amp; GEORGE &amp; SUPERCEDED GEOID HT. WAS -31.013m (OLD PN = 92650005)</td> </tr> </table>	Comments	PRE-HARN REF. MARKS WERE PINNACLE & GEORGE & SUPERCEDED GEOID HT. WAS -31.013m (OLD PN = 92650005)
Comments			
PRE-HARN REF. MARKS WERE PINNACLE & GEORGE & SUPERCEDED GEOID HT. WAS -31.013m (OLD PN = 92650005)			

  

Location Description
FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 8.10 MILES TO THE STATION ON THE RIGHT, THE STATION IS 60 FEET WEST OF THE CENTERLINE OF THE SOUTHBOUND LANE OF HWY. 71, 46 FEET SOUTH OF THE CENTERLINE OF A COUNTY ROAD AND 5.35 FEET NORTH OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650005A	<b>Date Monumented</b> 4/20/1992	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 40103, 040469
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 101,163.4111		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 190,474.4160		<b>Latitude</b> 35 13 23.2340700
<b>Elevation (M)*</b> 194.886		<b>Longitude</b> 94 18 6.4335780
<b>Northing (SFT)</b> 331,900.2913		<b>Ellipsoid Height (M):</b> 163.860
<b>Easting (SFT)</b> 624,914.8132		<b>Geoid Height (M):</b> -31.008
<b>Elevation (SFT)*</b> 639.388		

  

<b>Convergence Angle</b> -1 20 21.8684736	<b>Scale Factor</b> 0.999955679	<b>Location Description</b> FROM THE JCT. OF HWY. 71 AND HWY. 10S SOUTH OF FORT SMITH, GO EAST ON HWY. 10S 0.23 MILES TO THE STATION ON THE RIGHT, THE STATION IS 33 FEET SOUTH OF THE CENTERLINE OF HWY. 10S AND 2.00 FEET NORTH OF A WITNESS POST IN A VACANT LOT WEST OF GREENWOOD AUTO SALES.
<b>Elevation Adjust. Factor</b> 0.9999694170	<b>Combined Adjust. Factor</b> 0.9999250973	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	130	46.33	152.0
<b>MK # 2</b>	NBC IN COMBINATION POLE	90	33.50	109.9
<b>MK # 3</b>	NBC IN COMBINATION POLE	35	28.44	93.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PINNACLE	(OLD PN = 92650005A)
<b>Ref Mon # 2</b> GEORGE	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650006	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747,040373,040748
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	112,368.5514 0.0010
<b>Easting (M)</b>	193,223.6909 0.0010
<b>Elevation (M)*</b>	121.241
<b>Northing (SFT)</b>	368,662.4891
<b>Easting (SFT)</b>	633,934.7259
<b>Elevation (SFT)*</b>	397.773

  

<b>Convergence Angle</b>	-1 19 24.5767908
<b>Scale Factor</b>	0.999946140
<b>Elevation Adjust. Factor</b>	0.9999809736
<b>Combined Adjust. Factor</b>	0.9999271147

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	19	28.8153912
<b>Longitude</b>	94	16	27.9772428
<b>Ellipsoid Height:</b>	91.213		
<b>Grid Northing (Meters)</b>	112,368.5641		
<b>Grid Easting (Meters)</b>	193,223.6900		

  

Location Description				
TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT AND A PAVED ROAD ON THE LEFT, GO LEFT NORTHWEST ON PAVED ROAD FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT NORTH ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF A GRAVEL ROAD, GO RIGHT EAST ON THE GRAVEL ROAD FOR 1.21 KM (0.75 MI) TO A CURVE TO THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 25.372 METERS SOUTHEAST OF THE CENTER OF THE GRAVEL ROAD AND 1.90 METERS WEST OF A WITNESS POST AND A BARBED WIRE FENCE. THE STATION MARK IS STANDARD 64mm CAP STAMPED "650006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as SU 111 in job 001747				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	177	60.18	197.4
MK # 2	TELEPHONE JUNCTION BOX	300	36.60	120.1
MK # 3	GUY POLE	304	40.51	132.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY, (FS 2) <b>Ref Mon # 2</b> ARHR, (Q 299) <b>Ref Mon # 3</b> OKHV, (GAYLOR)	THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.038m AND PREVIOUS ELEV. WAS 121.201m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650006A	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747,040373,040748
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	112,408.5346 0.0010
<b>Easting (M)</b>	192,571.5380 0.0010
<b>Elevation (M)*</b>	122.585
<b>Northing (SFT)</b>	368,793.6673
<b>Easting (SFT)</b>	631,795.1209
<b>Elevation (SFT)*</b>	402.181

  

<b>Convergence Angle</b>	-1 19 39.6197891
<b>Scale Factor</b>	0.999946122
<b>Elevation Adjust. Factor</b>	0.9999807628
<b>Combined Adjust. Factor</b>	0.9999268858

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	19	29.6225832
<b>Longitude</b>	94	16	53.8295844
<b>Ellipsoid Height:</b>	92.525		
<b>Grid Northing (Meters)</b>	112,408.5371		
<b>Grid Easting (Meters)</b>	192,571.5170		

  

Location Description				
TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT AND A PAVED ROAD ON THE LEFT, GO LEFT NORTHWEST ON PAVED ROAD FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT NORTH ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF A GRAVEL ROAD, GO RIGHT EAST ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.70 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as SU 110 in job 001747				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	24	15.81	51.9
MK # 2	SOUTH END OF A 0.80 METER RCP	103	48.92	160.5
MK # 3	NORTH END OF A 0.80 METER RCP	93	47.25	155.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY, (FS 2) <b>Ref Mon # 2</b> ARHR, (Q 299) <b>Ref Mon # 3</b> OKHV, (GAYLOR)	THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.046m AND PREVIOUS ELEV. WAS 122.518m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650007	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747,040457,040458
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 110,741.5361		<b>Latitude</b> 35 18 33.5463732
<b>Easting (M)</b> 189,931.9870		<b>Longitude</b> 94 18 36.7640496
<b>Elevation (M)*</b> 145.389		<b>Ellipsoid Height (M):</b> 115.297
		<b>Geoid Height (M):</b> -30.128

  

<b>Northing (SFT)</b> 363,324.5230	<b>Easting (SFT)</b> 623,135.1940	<b>Location Description</b>
<b>Elevation (SFT)*</b> 476.997		<p>TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FOR CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 1.93 KM (1.20 MI) TO ST. MARYS CEMETERY ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS 14.916 METERS SOUTH OF THE CENTER OF ROBERTS BOULEVARD, 5.325 METERS EAST OF THE EXTENDED CENTER OF A PAVED ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARED 64mm CAP STAMPED "650007 1998" SET ON THE TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.Used as SU 105 in job 001747</p>
<b>Convergence Angle</b> -1 20 39.5177486		
<b>Scale Factor</b> 0.999947382		
<b>Elevation Adjust. Factor</b> 0.9999771842		
<b>Combined Adjust. Factor</b> 0.9999245674		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	CENTER OF MAN HOLE COVER	90	41.62	136.6	<b>AZ Mark Station</b> 650007A
<b>MK # 2</b>	0.40 METER PERSIMMON TREE	275	11.95	39.2	<b>Geodetic Azimuth</b> 272 33 47.79849
<b>MK # 3</b>	CORNER POST OF A CHAIN LINK FENCE	4	24.68	81.0	<b>Grid Azimuth</b> 273 54 27.37270

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> FS 2	
<b>Ref Mon # 2</b> Q 299	
<b>Ref Mon # 3</b> GAYLOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650007A	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747,040458
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 110,791.3421		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 189,202.8390		<b>Latitude</b> 35 18 34.6060656
<b>Elevation (M)*</b> 134.962		<b>Longitude</b> 94 19 5.6673840
<b>Northing (SFT)</b> 363,487.9282		<b>Ellipsoid Height (M):</b> 104.864
<b>Easting (SFT)</b> 620,742.9810		<b>Geoid Height (M):</b> -30.137
<b>Elevation (SFT)*</b> 442.788		

  

<b>Convergence Angle</b> -1 20 56.3365737	<b>Scale Factor</b> 0.999947358	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999788205	<b>Combined Adjust. Factor</b> 0.9999261796	<p>TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM ( 1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.74 KM (1.70 MI) TO THE STATION SET IN THE MIDDLE OF ROBERTS BOULEVARD. THE STATION IS 6.700 METERS NORTH OF THE SOUTH EDGE OF THE SHOULDER, 6.599 METERS SOUTH OF THE NORTH EDGE OF THE SHOULDER AND 7.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 650007A 1998" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE PAVEMENT.Used as HPT 705 in job 001747</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> 		
<b>Latitude</b> 		
<b>Longitude</b> 		
<b>Ellipsoid Height:</b> 		
<b>Grid Northing (Meters)</b> 		
<b>Grid Easting (Meters)</b> 		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	47	35.11	115.2
<b>MK # 2</b>	EAST END OF SOUTH HEADWALL	256	40.58	133.1
<b>MK # 3</b>	EAST END OF NORTH HEADWALL	277	40.96	134.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> FS 2 <b>Ref Mon # 2</b> Q 299 <b>Ref Mon # 3</b> GAYLOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650008	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,954.8391	
<b>Easting (M)</b>	188,168.2780	
<b>Elevation (M)*</b>	141.999	
<b>Northing (SFT)</b>	357,462.6679	
<b>Easting (SFT)</b>	617,348.7587	
<b>Elevation (SFT)*</b>	465.875	

  

<b>Convergence Angle</b>	-1	21	19.1612457
<b>Scale Factor</b>	0.999948794		
<b>Elevation Adjust. Factor</b>	0.9999777162		
<b>Combined Adjust. Factor</b>	0.9999265114		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT. GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CURVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.00 METERS NORTHWEST OF A GRAVEL ROAD 10.00 METERS SOUTHWEST OF A GRAVEL ROAD TO A LAKE AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 704 in job 001747</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHWEST END OF A 0.35 METER CMP	116	23.00	75.5	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input type="text" value="FS 2"/></p> <p>Ref Mon # 2 <input type="text" value="Q 299"/></p> <p>Ref Mon # 3 <input type="text" value="GAYLOR"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650008A	<b>Date Monumented</b> 3/24/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 001747
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	109,273.4611	
<b>Easting (M)</b>	187,809.0940	
<b>Elevation (M)*</b>	145.181	
<b>Northing (SFT)</b>	358,508.0136	
<b>Easting (SFT)</b>	616,170.3359	
<b>Elevation (SFT)*</b>	476.315	

  

<b>Convergence Angle</b>	-1	21	27.6051749
<b>Scale Factor</b>	0.999948549		
<b>Elevation Adjust. Factor</b>	0.9999772169		
<b>Combined Adjust. Factor</b>	0.9999257671		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CRUVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.32 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> <p>Used as VPT 611</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FS 2</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650010	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 97,045.5591		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 200,956.1770		<b>Latitude</b> 35 11 17.3942412
<b>Elevation (M)*</b> 200.386		<b>Longitude</b> 94 11 8.4204780
<b>Northing (SFT)</b> 318,390.3051		<b>Ellipsoid Height (M):</b> 170.112
<b>Easting (SFT)</b> 659,303.7240		<b>Geoid Height (M):</b> -30.274
<b>Elevation (SFT)*</b> 657.433		

  

<b>Convergence Angle</b> -1 16 18.6270152	<b>Scale Factor</b> 0.999959682
<b>Elevation Adjust. Factor</b> 0.9999685539	<b>Combined Adjust. Factor</b> 0.9999282372

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	180	21.80	71.5
MK # 2	0.36 METER PINE TREE	161	26.02	85.4
MK # 3	WEST END OF A 0.50 METER RCP	93	36.10	118.4

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AHTD FS2 Ref Mon # 2    OZARPORT Ref Mon # 3    Q 299	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650010A	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 97,000.5841		<b>Latitude</b> 35 11 16.2802212
<b>Easting (M)</b> 201,435.8400		<b>Longitude</b> 94 10 49.4257152
<b>Elevation (M)*</b> 197.546		<b>Ellipsoid Height (M):</b> 167.260
		<b>Geoid Height (M):</b> -30.266

  

<b>Northing (SFT)</b> 318,242.7497	<b>Easting (SFT)</b> 660,877.4184	<b>Location Description</b>
<b>Elevation (SFT)*</b> 648.116		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 96, LOCATED ON THE EAST SIDE OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 6.84 KM (4.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF A GRAVEL PASTURE ENTRANCE, 9.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 1.44 METERS NORTH OF A BARBED WIRE FENCE AND 1.19 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650010A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Convergence Angle</b> -1 16 7.5739793		
<b>Scale Factor</b> 0.999959719		
<b>Elevation Adjust. Factor</b> 0.9999689996		
<b>Combined Adjust. Factor</b> 0.9999287198		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN GATE POST	143	15.75	51.7
<b>MK # 2</b>	IRON PIPE CORNER POST	102	8.13	26.7
<b>MK # 3</b>	WEST END OF RCP	79	8.20	26.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS2 <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> Q 299	Elevations based on 3 wire from NGS point V 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650011	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	96,006.3271	
<b>Easting (M)</b>	208,216.8590	
<b>Elevation (M)*</b>	183.188	
<b>Northing (SFT)</b>	314,980.7582	
<b>Easting (SFT)</b>	683,124.8116	
<b>Elevation (SFT)*</b>	601.009	

  

<b>Convergence Angle</b>	-1	13	31.1494734
<b>Scale Factor</b>	0.999960643		
<b>Elevation Adjust. Factor</b>	0.9999712527		
<b>Combined Adjust. Factor</b>	0.9999318968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 (9.00 MII) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.48KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.959 METERS EAST OF THE CENTER OF A PAVED DRIVE, 9.307 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 2.38 METERS NORTH OF A BARDED WIRE FENCE AND 2.03 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	228	3.46	11.4
MK # 2	CENTER OF HEADWALL	278	36.08	118.4
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD FS2</p> <p>Ref Mon # 2    OZARPORT</p> <p>Ref Mon # 3    Q 299</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevations based on 3 wire from NGS point V 45</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650011A	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	96,076.7111				
<b>Easting (M)</b>	207,787.7350				
<b>Elevation (M)*</b>	191.815				
<b>Northing (SFT)</b>	315,211.6763				
<b>Easting (SFT)</b>	681,716.9272				
<b>Elevation (SFT)*</b>	629.313				

  

<b>Convergence Angle</b>	-1	13	41.0513063
<b>Scale Factor</b>	0.999960576		
<b>Elevation Adjust. Factor</b>	0.9999698989		
<b>Combined Adjust. Factor</b>	0.9999304761		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.33 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 0.91 METERS SOUTH OF A BARBED WIRE FENCE AND 0.77 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE IN LINE BRACE POST	274	15.15	49.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD FS2 <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> Q 299	Elevations based on 3 wire from NGS point V 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650012	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 95,353.0791		<b>Latitude</b> 35 10 31.6925472
<b>Easting (M)</b> 214,178.9710		<b>Longitude</b> 94 2 24.4778100
<b>Elevation (M)*</b> 181.267		<b>Ellipsoid Height (M):</b> 151.158
		<b>Geoid Height (M):</b> -30.097

  

<b>Northing (SFT)</b> 312,837.5603	<b>Easting (SFT)</b> 702,685.5074	<b>Location Description</b>
<b>Elevation (SFT)*</b> 594.707		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 5.87 KM (3.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.485 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 1.75 METERS NORTH OF A WHITE PLASTIC FENCE AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650012 1998" SET ON TOP OF AN IRON ROD 0.35 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Convergence Angle</b> -1 11 13.7452335		
<b>Scale Factor</b> 0.999961228		
<b>Elevation Adjust. Factor</b> 0.9999715541		
<b>Combined Adjust. Factor</b> 0.9999327832		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GUY POLE	263	38.85	127.5	650012A
MK # 2					Geodetic Azimuth 281 53 53.38686
MK # 3					Grid Azimuth 283 05 07.17300

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS2	Elevations based on 3 wire from NGS point V 45
Ref Mon # 2 OZARPORT	
Ref Mon # 3 Q 299	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650012A	<b>Date Monumented</b> 8/26/1998	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040246
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	95,435.4461	
<b>Easting (M)</b>	213,824.6090	
<b>Elevation (M)*</b>	171.953	
<b>Northing (SFT)</b>	313,107.7927	
<b>Easting (SFT)</b>	701,522.9047	
<b>Elevation (SFT)*</b>	564.149	

  

<b>Convergence Angle</b>	-1	11	21.9322771
<b>Scale Factor</b>	0.999961144		
<b>Elevation Adjust. Factor</b>	0.9999730157		
<b>Combined Adjust. Factor</b>	0.9999341607		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHISELED "X" IN CONCRETE GUARD RAIL POST	98	8.37	27.5
<b>MK # 2</b>	CHISELED "X" IN CONCRETE GUARD RAIL POST	145	1.11	3.6
<b>MK # 3</b>	CHISELED "X" IN CONCRETE GUARD RAIL POST	265	5.05	16.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> AHTD FS2 <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> Q 299	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point V 45</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point V 45
Comments			
Elevations based on 3 wire from NGS point V 45			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.73 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.53 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650012A 1998" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 34.1263200
<b>Longitude</b>	94 2 38.5473336
<b>Ellipsoid Height (M):</b>	141.816
<b>Geoid Height (M):</b>	-30.101

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650013	<b>Date Monumented</b> 11/30/2001	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040344
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,232.0562	
<b>Easting (M)</b>	179,817.0160	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,406.3377	
<b>Easting (SFT)</b>	589,949.6600	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	27.6378889
<b>Scale Factor</b>	0.999954886		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.85 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, 9.24 METERS EAST OF THE CENTER OF STATE HIGHWAY 45, AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 648.542 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	146	4.90	16.1
MK # 2	METAL FENCE POST	4	4.38	14.4
MK # 3	TELEPHONE POLE	160	18.45	60.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    L 298</p> <p>Ref Mon # 3    AHTD FS 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650013A	<b>Date Monumented</b> 11/30/2001	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040344
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,873.8191	
<b>Easting (M)</b>	179,723.7800	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	337,511.8548	
<b>Easting (SFT)</b>	589,643.7682	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	30.1459030
<b>Scale Factor</b>	0.999954274		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	350	13.70	44.9
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	650013
<b>Geodetic Azimuth</b>	170 19 32
<b>Grid Azimuth</b>	171 44 02

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Q 299
Ref Mon # 2	L 298
Ref Mon # 3	AHTD FS 2

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650014	<b>Date Monumented</b> 11/30/2001	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040344
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	100,255.2291	
<b>Easting (M)</b>	180,686.8070	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	328,920.6975	
<b>Easting (SFT)</b>	592,803.2993	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	6.5142181
<b>Scale Factor</b>	0.999956819		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
<b>MK # 1</b>	METAL CHAIN LINK FENCE POST	32	4.15	13.6		N/A
<b>MK # 2</b>	NORTH CORNER CARL MILLER GRAVE STONE	298	5.00	16.4		
<b>MK # 3</b>	SOUTH CORNER WASH PIGG GRAVE STONE	226	4.70	15.4		

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> L 298	
<b>Ref Mon # 3</b> AHTD FS 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650015	<b>Date Monumented</b> 9/24/2002	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 252	<b>Job Number:</b> 040111
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 85,463.7680		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 193,288.8890		<b>Latitude</b> 35 4 56.0341704
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 16 0.8725944
<b>Northing (SFT)</b> 280,392.3788		<b>Ellipsoid Height (M):</b> 151.982
<b>Easting (SFT)</b> 634,148.6300		<b>Geoid Height (M):</b> -30.664
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 19 8.8046467	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 252 IN HUNTINGTON, GO WEST ON STATE HIGHWAY 252 FOR 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 252, 7.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999974067	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END REINFORCED CONCRETE PIPE	339	4.40	14.4
<b>MK # 2</b>	CABLE POLE	82	18.65	61.2
<b>MK # 3</b>	MAN HOLE COVER	264	19.15	62.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> AHTD FS 2	
<b>Ref Mon # 3</b> SALISAW 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650015A	<b>Date Monumented</b> 9/24/2002	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 040111
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	85,459.1001	
<b>Easting (M)</b>	193,794.3510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	280,377.0642	
<b>Easting (SFT)</b>	635,806.9666	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	57.1942187
<b>Scale Factor</b>	0.999974058		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	281	20.50	67.3
MK # 2	CHAIN LINK CORNER POST	357	8.20	26.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	SALISAW 1

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 4 56.2598688

**Longitude** 94 15 40.9199472

**Ellipsoid Height (M):** 165.522

**Geoid Height (M):** -30.655

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71, STATE HIGHWAY 252, AND BROADWAY STREET IN HUNTINGTON, GO EAST ON BROADWAY STREET FOR 0.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS NORTH OF THE CENTER OF EAST BROADWAY STREET AND 8.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015A 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650016	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040439,040458,040716,040748
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 112,454.9458	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 190,859.3927	<b>0.0020</b>	<b>Latitude</b> 35 19 29.8355232
<b>Elevation (M)*</b> 146.802		<b>Longitude</b> 94 18 1.6452756
<b>Northing (SFT)</b> 368,945.9347		<b>Ellipsoid Height (M):</b> 116.618 0.0030
<b>Easting (SFT)</b> 626,177.8575		<b>Geoid Height (M):</b> -30.179 0.0030
<b>Elevation (SFT)*</b> 481.633		

  

<b>Convergence Angle</b> -1 20 19.0821646	<b>Scale Factor</b> 0.999946118	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999769625	<b>Combined Adjust. Factor</b> 0.9999230818	TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN BARLING, GO EAST ON STATE HIGHWAY 22 0.1 MILES TO THE STATION MARK ON THE LEFT, 10.7 METERS WEST OF AN ASPH. DRIVE TURN IN, AND NORTHEAST 9.3 METERS OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650016 2004" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> NAD 83 (1997)		
<b>Latitude</b> 35 19 29.8356204		
<b>Longitude</b> 94 18 1.6457400		
<b>Ellipsoid Height:</b> 116.731		
<b>Grid Northing (Meters)</b> 112,454.9490		
<b>Grid Easting (Meters)</b> 190,859.3810		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	113	13.10	43.0
MK # 2	SOUTHEAST CORNER OF BLOCK BLDG	323	17.80	58.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY (650006)	PREVIOUS ELEV. (146.8373m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006 *****NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
<b>Ref Mon # 2</b> ARHR (650007)	
<b>Ref Mon # 3</b> OKHV (AHTD FS 2)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650016A	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040487,040457,040458,040716
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	112,162.1798	0.0020
<b>Easting (M)</b>	191,313.9876	0.0020
<b>Elevation (M)*</b>	129.952	

  

<b>Northing (SFT)</b>	367,985.4182	
<b>Easting (SFT)</b>	627,669.3077	
<b>Elevation (SFT)*</b>	426.350	

  

<b>Convergence Angle</b>	-1	20	8.4538129
<b>Scale Factor</b>	0.999946318		
<b>Elevation Adjust. Factor</b>	0.9999796068		
<b>Combined Adjust. Factor</b>	0.9999259259		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	19	20.6824764
<b>Longitude</b>	94	17	43.3805280
<b>Ellipsoid Height:</b>	99.888		
<b>Grid Northing (Meters)</b>	112,162.1901		
<b>Grid Easting (Meters)</b>	191,313.9830		

  

**Location Description**  
  
 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN BARLING, GO EAST ON STATE HIGHWAY 22 0.45 MILES TO THE STATION MARK ON THE RIGHT, 13.7 METERS EAST OF AN ASPH. DRIVE, AND SOUTH 18.6 METERS OF THE HIGHWAY AND NORTH 0.15 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650016A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	132	6.35	20.8
<b>MK # 2</b>	TELEPHONE RISER	113	8.70	28.5
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	650016
<b>Geodetic Azimuth</b>	301 26 44
<b>Grid Azimuth</b>	302 46 52

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARFY (650006) <b>Ref Mon # 2</b> ARHR (650007) <b>Ref Mon # 3</b> OKHV (AHTD FS 2)	<b>Comments</b>  PREVIOUS ELEV. (129.9662m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006 *****NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650017	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040439,040487
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,766.9911	
<b>Easting (M)</b>	196,086.7840	
<b>Elevation (M)*</b>	144.134	
<b>Northing (SFT)</b>	366,688.8700	
<b>Easting (SFT)</b>	643,328.0572	
<b>Elevation (SFT)*</b>	472.879	

  

<b>Convergence Angle</b>	-1	18	18.3121864
<b>Scale Factor</b>	0.999946523		
<b>Elevation Adjust. Factor</b>	0.9999773812		
<b>Combined Adjust. Factor</b>	0.9999239054		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	23.90	78.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: 650006	3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006
Ref Mon # 2: 650007	
Ref Mon # 3: AHTD FS 2	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 19 11.4305664
<b>Longitude</b>	94 14 34.1007504
<b>Ellipsoid Height (M):</b>	114.094
<b>Geoid Height (M):</b>	-30.012

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.8 METERS OF THE HIGHWAY AND NORTH 5.8 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017 2004" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	650017A
<b>Geodetic Azimuth</b>	271 00 10
<b>Grid Azimuth</b>	272 18 28

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650017A	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040439
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,781.2191	
<b>Easting (M)</b>	195,733.7570	
<b>Elevation (M)*</b>	140.918	
<b>Northing (SFT)</b>	366,735.5497	
<b>Easting (SFT)</b>	642,169.8344	
<b>Elevation (SFT)*</b>	462.328	

  

<b>Convergence Angle</b>	-1	18	26.4508496
<b>Scale Factor</b>	0.999946518		
<b>Elevation Adjust. Factor</b>	0.9999778859		
<b>Combined Adjust. Factor</b>	0.9999244050		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.5 METERS OF THE HIGHWAY AND SOUTH 2.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    650006</p> <p><b>Ref Mon # 2</b>    650007</p> <p><b>Ref Mon # 3</b>    AHTD FS 2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650018	<b>Date Monumented</b> 11/16/2005	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 10	<b>Job Number:</b> 040443
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	96,005.7682	
<b>Easting (M)</b>	208,214.4140	
<b>Elevation (M)*</b>	183.228	
<b>Northing (SFT)</b>	314,978.9245	
<b>Easting (SFT)</b>	683,116.7899	
<b>Elevation (SFT)*</b>	601.141	

  

<b>Convergence Angle</b>	-1	13	31.2054181
<b>Scale Factor</b>	0.999960644		
<b>Elevation Adjust. Factor</b>	0.9999712464		
<b>Combined Adjust. Factor</b>	0.9999318915		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 (9.00 MII) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.48KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 36.8 METERS EAST OF THE CENTER OF A PAVED DRIVE, 10.6 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650018 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CROSS TIE POST	131	2.60	8.5
MK # 2	WOODEN CROSS TIE POST	185	1.50	4.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD FS 2, OZARPORT</p> <p><b>Ref Mon # 2</b>    Q 299, 650011A, 650010</p> <p><b>Ref Mon # 3</b>    650012, 650012A, 650010A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION OBTAINED BY 3 WIRE LEVEL 5/3/2005 BY CREW S5102 USING 650011A AS A BENCH MARK.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650019	<b>Date Monumented</b> 3/15/2011	<b>Monumented By</b> AHTD	<b>County</b> Sebastian	<b>Route</b> CR 35	<b>Job Number:</b> BR6506
--------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water meter	248	8.23	27.0
<b>MK # 2</b>	Power pole with guy	103	10.06	33.0
<b>MK # 3</b>	NE corner of mobile home	194	24.84	81.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SAL5	Digital levels were run from A 299 by crew S5102 during job BR6506
<b>Ref Mon # 2</b> OKHV	
<b>Ref Mon # 3</b> A 299, 650015A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650019A	<b>Date Monumented</b> 3/15/2011	<b>Monumented By</b> AHTD	<b>County</b> Sebastian	<b>Route</b> CR 35	<b>Job Number:</b> BR6506
---------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	88,571.2041				
<b>Easting (M)</b>	192,125.3610				
<b>Elevation (M)*</b>	175.650				
<b>Northing (SFT)</b>	290,587.3588				
<b>Easting (SFT)</b>	630,331.2885				
<b>Elevation (SFT)*</b>	576.280				

  

<b>Convergence Angle</b>	-1	19	37.1780871
<b>Scale Factor</b>	0.999969971		
<b>Elevation Adjust. Factor</b>	0.9999724355		
<b>Combined Adjust. Factor</b>	0.9999424073		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" RCP culvert	267	41.45	136.0
<b>MK # 2</b>	Left Fence Corner	234	25.60	84.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SAL5	Digital levels were run from A 299 by crew S5102 during job BR6506
<b>Ref Mon # 2</b> OKHV	
<b>Ref Mon # 3</b> A 299, 650015A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650020	<b>Date Monumented</b> 3/12/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 96	<b>Job Number:</b> 040625
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,366.2050	
<b>Easting (M)</b>	200,264.6753	
<b>Elevation (M)*</b>	123.802	
<b>Northing (SFT)</b>	365,373.9576	
<b>Easting (SFT)</b>	657,035.0222	
<b>Elevation (SFT)*</b>	406.173	

  

<b>Convergence Angle</b>	-1	16	41.8767485
<b>Scale Factor</b>	0.999946745		
<b>Elevation Adjust. Factor</b>	0.9999805718		
<b>Combined Adjust. Factor</b>	0.9999273179		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	262	23.16	76.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)
Ref Mon # 2: ARRS	
Ref Mon # 3: OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650020A	<b>Date Monumented</b> 3/12/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 96	<b>Job Number:</b> 040625,C56008
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,863.8374	
<b>Easting (M)</b>	200,631.9629	
<b>Elevation (M)*</b>	125.920	
<b>Northing (SFT)</b>	367,006.6065	
<b>Easting (SFT)</b>	658,240.0316	
<b>Elevation (SFT)*</b>	413.124	

  

<b>Convergence Angle</b>	-1	16	33.6725881
<b>Scale Factor</b>	0.999946380		
<b>Elevation Adjust. Factor</b>	0.9999802394		
<b>Combined Adjust. Factor</b>	0.9999266204		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 96, SOUTHWEST OF LAVACA, GO NORTH ON STATE HIGHWAY 96 0.7 MILES TO THE MARK ON THE LEFT, WEST 17.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650020A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    ARRS</p> <p>Ref Mon # 3    OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650021	<b>Date Monumented</b> 3/12/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 96	<b>Job Number:</b> 040625
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	119,544.3672 0.0020
<b>Easting (M)</b>	207,568.4523 0.0020
<b>Elevation (M)*</b>	118.149

  

<b>Northing (SFT)</b>	392,205.1447	
<b>Easting (SFT)</b>	680,997.4973	
<b>Elevation (SFT)*</b>	387.627	

  

<b>Convergence Angle</b>	-1	13	57.7047441
<b>Scale Factor</b>	0.999941521		
<b>Elevation Adjust. Factor</b>	0.9999814589		
<b>Combined Adjust. Factor</b>	0.9999229810		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	23	31.9927632
<b>Longitude</b>	94	7	6.2475672
<b>Ellipsoid Height:</b>	88.387		
<b>Grid Northing (Meters)</b>	119,544.3649		
<b>Grid Easting (Meters)</b>	207,568.3626		

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO SOUTH ON STATE HIGHWAY 96 0.3 MILES TO THE MARK ON THE RIGHT, WEST 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 POWER POLE	7	22.56	74.0	AZ Mark Station 650021A
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (ARFY)	NEW STATIC WAS PERFORMED ON THIS POINT IN JAN. & FEB. 2016 AFTER THE DISCOVERY WAS MADE THAT IT HAD BEEN PHYSICALLY RELOCATED AND NEW DIGITAL LEVELS WERE RAN TO IT FROM POINT NUMBER 4. *****SUPERCEDED ELEV. ***** (387.434') VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS
Ref Mon # 2 ARLR, (ARRS)	
Ref Mon # 3 OKHV, (OKHV)	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650021A	<b>Date Monumented</b> 3/12/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 252	<b>Job Number:</b> 040625
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	120,130.4617		
<b>Easting (M)</b>	207,660.7585		
<b>Elevation (M)*</b>	123.747		
<b>Northing (SFT)</b>	394,128.0231		
<b>Easting (SFT)</b>	681,300.3385		
<b>Elevation (SFT)*</b>	405.992		

  

<b>Convergence Angle</b>	-1	13	55.8673333
<b>Scale Factor</b>	0.999941217		
<b>Elevation Adjust. Factor</b>	0.9999805805		
<b>Combined Adjust. Factor</b>	0.9999217986		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO EAST ON STATE HIGHWAY 252 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 37.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND 95.5 FEET WEST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARRS <b>Ref Mon # 3</b> OKHV	VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK U 295 AND J 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650022	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> BB0407
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 116,311.5654		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 185,264.8569		<b>Latitude</b> 35 21 30.6481248
<b>Elevation (M)*</b> 163.118		<b>Longitude</b> 94 21 46.7606304
<b>Northing (SFT)</b> 381,598.8608		<b>Ellipsoid Height (M):</b> 133.085
<b>Easting (SFT)</b> 607,823.1180		<b>Geoid Height (M):</b> -30.033
<b>Elevation (SFT)*</b> 535.165		

  

<b>Convergence Angle</b> -1 22 30.0765933	<b>Scale Factor</b> 0.999943653
<b>Elevation Adjust. Factor</b> 0.9999744020	<b>Combined Adjust. Factor</b> 0.9999180565

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SIGNAL LIGHT POLE	327	8.14	26.7
<b>MK # 2</b>	CONC R/W MKR	266	13.41	44.0
<b>MK # 3</b>	LIGHT POLE	113	21.15	69.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> OKHV <b>Ref Mon # 3</b> ARRS	<b>Comments</b> ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650022-1	<b>Date Monumented</b> 12/15/2014	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> CR 181	<b>Job Number:</b> BR6508
----------------------------	--------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	104,987.4923	0.0030	
<b>Easting (M)</b>	180,584.1997	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	344,446.4643		
<b>Easting (SFT)</b>	592,466.6618		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	24	11.5406137
<b>Scale Factor</b>	0.999952304		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	254	63.50	208.3
MK # 2	GUT POLE W/3 GUYS	206	21.90	71.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> SAL5	

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:**                      Geoid 12A

**Latitude**                      35    15    19.6095096

**Longitude**                      94    24    41.1276564

**Ellipsoid Height (M):**                      122.124    0.0070

**Geoid Height (M):**                      -30.542    0.0070

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.85 MILES TO MARK ON LEFT, 33.6 FEET EAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650022A	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> BB0407
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,599.6806	
<b>Easting (M)</b>	184,809.7242	
<b>Elevation (M)*</b>	153.182	
<b>Northing (SFT)</b>	382,544.1188	
<b>Easting (SFT)</b>	606,329.9035	
<b>Elevation (SFT)*</b>	502.566	

  

<b>Convergence Angle</b>	-1	22	40.7239787
<b>Scale Factor</b>	0.999943484		
<b>Elevation Adjust. Factor</b>	0.9999759613		
<b>Combined Adjust. Factor</b>	0.9999194466		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE COVER	237	3.72	12.2
<b>MK # 2</b>	COMBINATION POLE W/LIGHT	277	17.50	57.4
<b>MK # 3</b>	SOUTHWEST CORNER OF A BRICK BLDING	248	12.28	40.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="ARFY"/> <b>Ref Mon # 2</b> <input type="text" value="OKHV"/> <b>Ref Mon # 3</b> <input type="text" value="ARRS"/>	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 (ROGERS AVE) AND I 540, EAST OF FORT SMITH, GO WEST ON HIGHWAY 22 0.20 MILES TO THE STATION MARK ON THE RIGHT, EAST 116.3 FEET OF THE CENTERLINE OF SOUTH 58th STREET, AND 12.55 FEET NORTH OF THE BACK OF THE CURB FOR HIGHWAY 22. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650022A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	650022
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650022A-1	<b>Date Monumented</b> 12/15/2014	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> CR 181	<b>Job Number:</b> BR6508
-----------------------------	--------------------------------------	------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	105,577.2010	0.0030
<b>Easting (M)</b>	180,596.5779	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	346,381.2003	
<b>Easting (SFT)</b>	592,507.2727	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	24	11.5881874
<b>Scale Factor</b>	0.999951779		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/TELEPHONE BOX	72	14.30	46.9
<b>MK # 2</b>	FENCE CORNER	259	2.50	8.2
<b>MK # 3</b>	SERVICE POLE	327	117.00	383.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> SAL5	

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:**                      Geoid 12A

**Latitude**                      35    15    38.7496404

**Longitude**                      94    24    41.2094124

**Ellipsoid Height (M):**                      123.828    0.0070

**Geoid Height (M):**                      -30.525    0.0070

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.45 MILES TO MARK ON RIGHT, 36 FEET WEST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650023	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> GRAND	<b>Job Number:</b> BB0407
--------------------------	--------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	119,252.7108	
<b>Easting (M)</b>	185,114.4689	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	391,248.2687	
<b>Easting (SFT)</b>	607,329.7200	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	35.1704593
<b>Scale Factor</b>	0.999941950		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	245	3.54	11.6
<b>MK # 2</b>	LIGHT POLE	95	17.98	59.0
<b>MK # 3</b>	SIGNAL BOX	93	19.20	63.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> OKHV <b>Ref Mon # 3</b> ARRS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 23 5.9426340
<b>Longitude</b>	94 21 55.5144948
<b>Ellipsoid Height (M):</b>	106.706
<b>Geoid Height (M):</b>	-29.949

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO WEST ON GRAND AVE 0.05 MILES TO THE STATION MARK ON THE LEFT, SOUTH 8.3 FEET OF THE BACK OF THE CURB FOR GRAND AVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650023A	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> GRAND	<b>Job Number:</b> BB0407
---------------------------	--------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	119,251.1771				
<b>Easting (M)</b>	185,623.5594				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	391,243.2369				
<b>Easting (SFT)</b>	608,999.9611				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	22	23.4346972
<b>Scale Factor</b>	0.999941944		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	23	6.04	19.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	
Ref Mon # 2 OKHV	
Ref Mon # 3 ARRS	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 23 6.2892348
<b>Longitude</b>	94 21 35.3464596
<b>Ellipsoid Height (M):</b>	93.470
<b>Geoid Height (M):</b>	-29.943

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO EAST ON GRAND AVE 0.25 MILES TO THE STATION MARK ON THE LEFT, NORTH 16.5 FEET OF THE CENTERLINE OF GRAND AVE, 13.2 FEET EAST OF THE EAST END OF A BRIDGE AND 65 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650024	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> LLY RO.	<b>Job Number:</b> BB0407
--------------------------	--------------------------------------	------------------------------	----------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	121,782.9910	
<b>Easting (M)</b>	185,886.9092	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	399,549.6963	
<b>Easting (SFT)</b>	609,863.9679	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	18.7619122
<b>Scale Factor</b>	0.999940644		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
			Meters	Feet	Meters	Feet
MK # 1	36 INCH COTTONWOOD		175		76.05	249.5
MK # 2	36 INCH COTTONWOOD		222		71.41	234.3
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> OKHV <b>Ref Mon # 3</b> ARRS	

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 24 28.6266564
<b>Longitude</b>	94 21 27.3162276
<b>Ellipsoid Height (M):</b>	92.031
<b>Geoid Height (M):</b>	-29.862

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO EAST ON KELLY HIGHWAY 0.1 MILES TO A DIRT FIELD ROAD WITH A GATE ON THE LEFT, TURN LEFT HERE AND GO 0.4 MILES TO A CROSS ROAD AND TURN LEFT AND GO 0.5 MILES TO THE MARK ON THE RIGHT, 15.8 FEET EAST OF THE CENTERLINE OF THE ROAD AND 132.3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024 2012" ON TOP OF A 4 FOOT REBAR DRIVEN 0.5 FEET BELOW THE SURFACE OF THE GROUND. THE LAND OWNER IS BILLY WARD 479-650-0921. HE GAVE US PERMISSION ON 11-8-12 AT 1:27pm WHILE ON THE SITE.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650024A	<b>Date Monumented</b> 11/13/2012	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> LLY RO.	<b>Job Number:</b> BB0407
---------------------------	--------------------------------------	------------------------------	----------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	122,439.9571	
<b>Easting (M)</b>	185,771.3032	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	401,705.0926	
<b>Easting (SFT)</b>	609,484.6839	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	22	21.7904661
<b>Scale Factor</b>	0.999940334		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO NORTH ON I 540 0.8 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 73.0 FEET OF THE EDGE OF THE CONC. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	650024
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> OKHV <b>Ref Mon # 3</b> ARRS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650025	<b>Date Monumented</b> 3/2/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 255	<b>Job Number:</b> 040373, 040716
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	112,432.0300	0.0020			
<b>Easting (M)</b>	187,047.9747	0.0020			
<b>Elevation (M)*</b>	131.924				
<b>Northing (SFT)</b>	368,870.7518				
<b>Easting (SFT)</b>	613,673.2303				
<b>Elevation (SFT)*</b>	432.821				

  

<b>Convergence Angle</b>	-1	21	46.8606367
<b>Scale Factor</b>	0.999946198		
<b>Elevation Adjust. Factor</b>	0.9999792972		
<b>Combined Adjust. Factor</b>	0.9999254963		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	132	25.18	82.6
<b>MK # 2</b>	SS MAN HOLE	124	20.12	66.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 19 26.1764688
<b>Longitude</b>	94 20 32.4935376
<b>Ellipsoid Height (M):</b>	101.689 0.0040
<b>Geoid Height (M):</b>	-30.233 0.0040

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.55 MILES TO THE MARK ON THE RIGHT, SOUTH 29.6 ' OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650025A	<b>Date Monumented</b> 3/8/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 255	<b>Job Number:</b> 040373, 040716
---------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	112,553.3375	0.0020			
<b>Easting (M)</b>	186,681.5199	0.0020			
<b>Elevation (M)*</b>	129.069				
<b>Northing (SFT)</b>	369,268.7414				
<b>Easting (SFT)</b>	612,470.9532				
<b>Elevation (SFT)*</b>	423.453				

  

<b>Convergence Angle</b>	-1	21	55.3679263
<b>Scale Factor</b>	0.999946118		
<b>Elevation Adjust. Factor</b>	0.9999797453		
<b>Combined Adjust. Factor</b>	0.9999258644		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	356	1.89	6.2
<b>MK # 2</b>	COMBINATION POLE W/GUY	103	17.07	56.0
<b>MK # 3</b>	GAS MARKER	300	17.53	57.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY	ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12A
<b>Latitude</b>	35 19 29.8286544
<b>Longitude</b>	94 20 47.1134076
<b>Ellipsoid Height (M):</b>	98.834 0.0040
<b>Geoid Height (M):</b>	-30.235 0.0040

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.3 MILES TO THE MARK ON THE LEFT, NORTH 35.5 ' OF THE CENTERLINE OF THE ROAD AND 18.3' EAST OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650026	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> I 540	<b>Job Number:</b> 040713
--------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	107,689.1585 0.0020
<b>Easting (M)</b>	183,786.7300 0.0020
<b>Elevation (M)*</b>	167.954
<b>Northing (SFT)</b>	353,310.1808
<b>Easting (SFT)</b>	602,973.6300
<b>Elevation (SFT)*</b>	551.030

  

<b>Convergence Angle</b>	-1	22	59.3398554
<b>Scale Factor</b>	0.999949907		
<b>Elevation Adjust. Factor</b>	0.9999736432		
<b>Combined Adjust. Factor</b>	0.9999235515		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 163' SOUTH OF A DROP INLET, 29' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 37.3' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    ARRV</p> <p>Ref Mon # 3    OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 &amp; N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650026A	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> I 540	<b>Job Number:</b> 040713
---------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	108,113.6546 0.0020
<b>Easting (M)</b>	183,563.6415 0.0020
<b>Elevation (M)*</b>	154.299
<b>Northing (SFT)</b>	354,702.8818
<b>Easting (SFT)</b>	602,241.7138
<b>Elevation (SFT)*</b>	506.231

  

<b>Convergence Angle</b>	-1	23	4.7117398
<b>Scale Factor</b>	0.999949562		
<b>Elevation Adjust. Factor</b>	0.9999757860		
<b>Combined Adjust. Factor</b>	0.9999253492		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.5 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 82' SOUTH OF A DROP INLET, 28.5' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 38.5' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 1.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    ARRV</p> <p>Ref Mon # 3    OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 &amp; N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650027	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040713
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	110,977.0921	0.0020			
<b>Easting (M)</b>	183,087.7324	0.0020			
<b>Elevation (M)*</b>	151.216				
<b>Northing (SFT)</b>	364,097.3430				
<b>Easting (SFT)</b>	600,680.3354				
<b>Elevation (SFT)*</b>	496.114				

  

<b>Convergence Angle</b>	-1	23	17.2654687
<b>Scale Factor</b>	0.999947328		
<b>Elevation Adjust. Factor</b>	0.9999762699		
<b>Combined Adjust. Factor</b>	0.9999235991		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	263	3.81	12.5
<b>MK # 2</b>	COMBINATION POLE	323	32.92	108.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 18 35.8925940
<b>Longitude</b>	94 23 7.8552276
<b>Ellipsoid Height (M):</b>	120.884 0.0000
<b>Geoid Height (M):</b>	-30.332 0.0000

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO THE MARK ON THE LEFT, 58' NORTH OF A CONC DRIVEWAY AND 26.5' FEET WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650027A	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> AYERS	<b>Job Number:</b> 040713
---------------------------	-------------------------------------	------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	110,961.8679 0.0020
<b>Easting (M)</b>	182,694.2126 0.0020
<b>Elevation (M)*</b>	149.349
<b>Northing (SFT)</b>	364,047.3949
<b>Easting (SFT)</b>	599,389.2625
<b>Elevation (SFT)*</b>	489.989

  

<b>Convergence Angle</b>	-1 23 26.3193829
<b>Scale Factor</b>	0.999947346
<b>Elevation Adjust. Factor</b>	0.9999765628
<b>Combined Adjust. Factor</b>	0.9999239101

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SS MANHOLE	261	10.82	35.5
MK # 2	DROP INLET	321	12.58	41.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 18 35.0890920
<b>Longitude</b>	94 23 23.4144780
<b>Ellipsoid Height (M):</b>	119.011 0.0000
<b>Geoid Height (M):</b>	-30.338 0.0000

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO AYERS ROAD AND TURN LEFT (WEST) AND GO 0.2 MILES TO THE MARK ON THE RIGHT, 34' WEST OF THE C/L OF A CONC DRIVEWAY AND 24.5' FEET NORTH OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650028	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040713, 040889
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	112,119.1970	0.0020			
<b>Easting (M)</b>	182,953.0873	0.0020			
<b>Elevation (M)*</b>	152.727				
<b>Northing (SFT)</b>	367,844.3988				
<b>Easting (SFT)</b>	600,238.5873				
<b>Elevation (SFT)*</b>	501.073				

  

<b>Convergence Angle</b>	-1	23	21.0040570
<b>Scale Factor</b>	0.999946492		
<b>Elevation Adjust. Factor</b>	0.9999760327		
<b>Combined Adjust. Factor</b>	0.9999225260		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF A GATE	208	7.92	26.0
<b>MK # 2</b>	COMBINATION POLE	359	28.86	94.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> OKHV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 19 12.8369460
<b>Longitude</b>	94 23 14.2800324
<b>Ellipsoid Height (M):</b>	122.429 0.0000
<b>Geoid Height (M):</b>	-30.298 0.0000

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.45 MILES TO THE MARK ON THE RIGHT, 26' NORTH OF THE C/L OF A DRIVEWAY, WEST 26.5 FEET OF THE C/L OF THE HIGHWAY AND 7' EAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650028A	<b>Date Monumented</b> 6/14/2017	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040713, 040889
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	112,613.4136	0.0020			
<b>Easting (M)</b>	183,004.4386	0.0020			
<b>Elevation (M)*</b>	143.953				
<b>Northing (SFT)</b>	369,465.8411				
<b>Easting (SFT)</b>	600,407.0623				
<b>Elevation (SFT)*</b>	472.287				

  

<b>Convergence Angle</b>	-1	23	20.0973152
<b>Scale Factor</b>	0.999946138		
<b>Elevation Adjust. Factor</b>	0.9999774095		
<b>Combined Adjust. Factor</b>	0.9999235488		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MANHOLE	248	3.35	11.0
<b>MK # 2</b>	RIGHT OF WAY MARKER	8	11.88	39.0
<b>MK # 3</b>	MANHOLE	353	13.72	45.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> OKHV	

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12B

**Latitude** 35 19 28.9098624

**Longitude** 94 23 12.7217868

**Ellipsoid Height (M):** 113.671 0.0000

**Geoid Height (M):** -30.282 0.0000

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.15 MILES TO THE MARK ON THE LEFT, 74' SOUTH OF THE BACK OF A CURB AND EAST 45' FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650029	<b>Date Monumented</b> 11/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 252	<b>Job Number:</b> 040778
--------------------------	--------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	118,894.3460	0.0020	
<b>Easting (M)</b>	209,607.7811	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	390,072.5335		
<b>Easting (SFT)</b>	687,688.1952		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	13	10.3706085
<b>Scale Factor</b>	0.999941844		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CTR OF GATE	118	8.23	27.0
<b>MK # 2</b>	FENCE CORNER	87	7.19	23.6
<b>MK # 3</b>	PPOLE / GUY	37	106.00	347.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> ARFS, OKHV	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	35 23 12.3208368
<b>Longitude</b>	94 5 44.8997892
<b>Ellipsoid Height (M):</b>	87.861 0.0030
<b>Geoid Height (M):</b>	-29.704 0.0030

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.50 MILES TO THE STATION ON THE LEFT. 17.5' E OF THE C/L OF SR-252, 14.8' S C/L OF GRAVEL DW. 11.3' N OF C/L DIRT DW. THE MARK IS A STANDARD 2½" CAP STAMPED "650029 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650029A	<b>Date Monumented</b> 11/13/2018	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 252	<b>Job Number:</b> 040778
---------------------------	--------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	119,333.9356	0.0020			
<b>Easting (M)</b>	209,617.0885	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	391,514.7537				
<b>Easting (SFT)</b>	687,718.7312				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	13	10.3717774
<b>Scale Factor</b>	0.999941609		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.20 MILES TO THE STATION ON THE RIGHT. 16.7' W OF THE C/L OF SR-252. THE MARK IS A STANDARD 2½" CAP STAMPED "650029A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 1</b> ARFY	
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> ARFS, OKHV	

  

<b>AZ Mark Station</b>	650029
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650030	<b>Date Monumented</b> 12/19/2018	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040792
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	83,237.8410	0.0010			
<b>Easting (M)</b>	186,100.0412	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	273,089.4833				
<b>Easting (SFT)</b>	610,563.2185				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	21	52.6759793
<b>Scale Factor</b>	0.999977412		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/TRANSFORMER	245	30.48	100.0
<b>MK # 2</b>	5 BARBWIRE FE	130	4.88	16.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARRV, OKHV	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 3 38.3592420
<b>Longitude</b>	94 20 42.4872672
<b>Ellipsoid Height (M):</b>	154.003 0.0050
<b>Geoid Height (M):</b>	-30.946 0.0050

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 1.0 MILE TO THE MARK ON LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 24' AND SOUTHWEST OF THE C/L OF A DRIVEWAY 111.0'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650030A	<b>Date Monumented</b> 12/19/2018	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040792
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	83,598.4283    0.0010
<b>Easting (M)</b>	186,342.2883    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	274,272.5102	
<b>Easting (SFT)</b>	611,357.9909	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	47.3113451
<b>Scale Factor</b>	0.999976891		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SERVICE POLE	46	9.45	31.0
<b>MK # 2</b>	FENCE CORNER	230	1.46	4.8
<b>MK # 3</b>	GAS METER	38	23.19	76.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARRV, OKHV	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID12B

**Latitude**    35    3    50.2441704

**Longitude**    94    20    33.2680848

**Ellipsoid Height (M):**    155.227    0.0050

**Geoid Height (M):**    -30.939    0.0050

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 0.75 MILES TO THE MARK ON RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 32'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650031	<b>Date Monumented</b> 12/19/2018	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040792
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	88,500.5650	0.0010			
<b>Easting (M)</b>	184,192.9467	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	290,355.6037				
<b>Easting (SFT)</b>	604,306.3593				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	22	39.3653387
<b>Scale Factor</b>	0.999970305		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF A GATE	106		
<b>MK # 2</b>		26.76		
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARRV, OKHV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	35 6 27.6060024
<b>Longitude</b>	94 22 2.7234408
<b>Ellipsoid Height (M):</b>	136.578 0.0050
<b>Geoid Height (M):</b>	-30.894 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON LEFT, WEST OF THE C/L OF THE HIGHWAY 28'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650031A	<b>Date Monumented</b> 12/19/2018	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040792
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	88,967.9224	0.0010			
<b>Easting (M)</b>	184,231.1108	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	291,888.9254				
<b>Easting (SFT)</b>	604,431.5693				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	22	38.7467941
<b>Scale Factor</b>	0.999969699		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	175	13.41	44.0
MK # 2	POWER POLE W/GUY	209	35.05	115.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFS  Ref Mon # 2    ARFY  Ref Mon # 3    ARRV, OKHV	<b>Comments</b>  GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT
---	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.5 MILES TO THE MARK ON RIGHT, EAST OF THE C/L OF THE HIGHWAY 22.7'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	650031
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650032	<b>Date Monumented</b> 1/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 71	<b>Job Number:</b> 040781
--------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	89,121.9729	0.0010			
<b>Easting (M)</b>	193,332.2495	0.0010			
<b>Elevation (M)*</b>	179.850				
<b>Northing (SFT)</b>	292,394.3394				
<b>Easting (SFT)</b>	634,290.8886				
<b>Elevation (SFT)*</b>	590.059				

  

<b>Convergence Angle</b>	-1	19	9.7437642
<b>Scale Factor</b>	0.999969227		
<b>Elevation Adjust. Factor</b>	0.9999717764		
<b>Combined Adjust. Factor</b>	0.9999410043		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.4 MILES TO THE MARK ON THE LEFT, WEST 24.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	216	6.92	22.7
MK # 2	CABLE MARKER	347	14.63	48.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.
Ref Mon # 1    ARFS Ref Mon # 2    ARFY Ref Mon # 3    ARRV, OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650032A	<b>Date Monumented</b> 1/8/2019	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 71	<b>Job Number:</b> 040781
---------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	89,670.7592	0.0010	
<b>Easting (M)</b>	193,357.8599	0.0010	
<b>Elevation (M)*</b>	182.105		
<b>Northing (SFT)</b>	294,194.8158		
<b>Easting (SFT)</b>	634,374.9120		
<b>Elevation (SFT)*</b>	597.455		

  

<b>Convergence Angle</b>	-1	19	9.4457422
<b>Scale Factor</b>	0.999968528		
<b>Elevation Adjust. Factor</b>	0.9999714227		
<b>Combined Adjust. Factor</b>	0.9999399516		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER VALVE	323	3.65	12.0
<b>MK # 2</b>	FENCE CORNER	280	4.36	14.3
<b>MK # 3</b>	BENCH MARK A 299	335	12.68	41.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARRV, OKHV	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.
---	--

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid12B

**Latitude**    35    7    12.5671980

**Longitude**    94    16    1.9743240

**Ellipsoid Height (M):**    151.387    0.0080

**Geoid Height (M):**    -30.719    0.0080

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.75 MILES TO THE MARK ON THE LEFT, WEST 23.9" OF THE C/L OF THE HIGHWAY AND 22.1' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032A 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	650032
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650033	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> US-71	<b>Job Number:</b> 040762, 040823
--------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	99,126.8937	0.0020			
<b>Easting (M)</b>	191,347.6245	0.0020			
<b>Elevation (M)*</b>	180.415				
<b>Northing (SFT)</b>	325,218.8171				
<b>Easting (SFT)</b>	627,779.6647				
<b>Elevation (SFT)*</b>	591.913				

  

<b>Convergence Angle</b>	-1	20	0.6897630
<b>Scale Factor</b>	0.999957714		
<b>Elevation Adjust. Factor</b>	0.9999716877		
<b>Combined Adjust. Factor</b>	0.9999294029		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
650033 TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.1 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARFS Ref Mon # 2    ARFY, ARGS Ref Mon # 3    ARRV, CTA1	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
--	--

  

<b>AZ Mark Station</b>	650033A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650033A	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> US-71	<b>Job Number:</b> 040762
---------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	99,573.9691 0.0020
<b>Easting (M)</b>	191,213.4758 0.0020
<b>Elevation (M)*</b>	167.637
<b>Northing (SFT)</b>	326,685.5970
<b>Easting (SFT)</b>	627,339.5452
<b>Elevation (SFT)*</b>	549.989

  

<b>Convergence Angle</b>	-1	20	4.0146818
<b>Scale Factor</b>	0.999957257		
<b>Elevation Adjust. Factor</b>	0.9999736930		
<b>Combined Adjust. Factor</b>	0.9999309511		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
650033A TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.4 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARFS Ref Mon # 2    ARFY, ARGS Ref Mon # 3    ARRV, CTA1	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650034	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> COKER ST	<b>Job Number:</b> 040762
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	98,591.1173	0.0020	
<b>Easting (M)</b>	194,224.4650	0.0020	
<b>Elevation (M)*</b>	150.724		
<b>Northing (SFT)</b>	323,461.0240		
<b>Easting (SFT)</b>	637,218.0989		
<b>Elevation (SFT)*</b>	494.501		

  

<b>Convergence Angle</b>	-1	18	54.2397195
<b>Scale Factor</b>	0.999958201		
<b>Elevation Adjust. Factor</b>	0.9999763470		
<b>Combined Adjust. Factor</b>	0.9999345490		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CP / GY	185	21.70	71.2
<b>MK # 2</b>	CTR OF GATE	252	10.97	36.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
<b>Ref Mon # 2</b> ARFY, ARGS	
<b>Ref Mon # 3</b> ARRV, CTA1	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 12 2.6039988
<b>Longitude</b>	94 15 35.8426080
<b>Ellipsoid Height (M):</b>	120.232 0.0080
<b>Geoid Height (M):</b>	-30.481 0.0080

Location Description
650034 TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-10S IN GREENWOOD, GO S ON SR-10 AND CONTINUE STRAIGHT S ON COKER ST 0.85 MILES TO STATION ON R. 22' W OF C/L COKER ST. 11.5'N OF C/L FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "650034 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650034A	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> COKER ST	<b>Job Number:</b> 040762
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 99,112.3458	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 194,265.8056	<b>0.0020</b>	<b>Latitude</b> 35 12 19.5442380
<b>Elevation (M)*</b> 151.831		<b>Longitude</b> 94 15 34.6815288
<b>Northing (SFT)</b> 325,171.0878		<b>Ellipsoid Height (M):</b> 121.352 0.0080
<b>Easting (SFT)</b> 637,353.7305		<b>Geoid Height (M):</b> -30.467 0.0080
<b>Elevation (SFT)*</b> 498.132		

  

<b>Convergence Angle</b> -1 18 53.5640885	<b>Location Description</b>  650034A TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-10S IN GREENWOOD, GO S ON SR-10 AND CONTINUE STRAIGHT S ON COKER ST 0.5 MILES TO STATION ON L. 19.3' E OF C/L COKER ST. THE MARK IS A STANDARD 2½" CAP STAMPED "650034A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 0.999957659	
<b>Elevation Adjust. Factor</b> 0.9999761733	
<b>Combined Adjust. Factor</b> 0.9999338333	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LP / TB	16	4.88	16.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
<b>Ref Mon # 2</b> ARFY, ARGS	
<b>Ref Mon # 3</b> ARRV, CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650035	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> SR-10	<b>Job Number:</b> 040762
--------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	99,313.2941	0.0030			
<b>Easting (M)</b>	195,925.5079	0.0020			
<b>Elevation (M)*</b>	159.427				
<b>Northing (SFT)</b>	325,830.3657				
<b>Easting (SFT)</b>	642,798.9372				
<b>Elevation (SFT)*</b>	523.052				

  

<b>Convergence Angle</b>	-1	18	15.4958772
<b>Scale Factor</b>	0.999957413		
<b>Elevation Adjust. Factor</b>	0.9999749814		
<b>Combined Adjust. Factor</b>	0.9999323955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SIGNAL POLE	277	11.28	37.0
<b>MK # 2</b>	CP	320	9.85	32.3
<b>MK # 3</b>	CP/TB/METER LOOP	75	8.84	29.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
<b>Ref Mon # 2</b> ARFY, ARGS	
<b>Ref Mon # 3</b> ARRV, CTA1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650035A	<b>Date Monumented</b> 8/14/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> SR-10	<b>Job Number:</b> 040762
---------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	99,255.2295	0.0030			
<b>Easting (M)</b>	196,307.5805	0.0020			
<b>Elevation (M)*</b>	157.385				
<b>Northing (SFT)</b>	325,639.8655				
<b>Easting (SFT)</b>	644,052.4537				
<b>Elevation (SFT)*</b>	516.354				

  

<b>Convergence Angle</b>	-1	18	6.6775483
<b>Scale Factor</b>	0.999957464		
<b>Elevation Adjust. Factor</b>	0.9999753018		
<b>Combined Adjust. Factor</b>	0.9999327668		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
650035A TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-96 E OF GREENWOOD, GO E ON SR-10 0.55 MILES TO STATION ON R. 28.6' S OF C/L SR-10. 46.2' W OF C/L WELLS SCHOOL RD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650035A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LP	194	5.67	18.6
MK # 2	LP/2GY	178	21.28	69.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY, ARGS <b>Ref Mon # 3</b> ARRV, CTA1	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650036	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723, 040889
--------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 112,962.7980	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid12B
<b>Easting (M)</b> 181,595.6556	<b>0.0020</b>	<b>Latitude</b> 35 19 39.1322820
<b>Elevation (M)*</b> 148.236		<b>Longitude</b> 94 24 8.8230672
<b>Northing (SFT)</b> 370,612.1131		<b>Ellipsoid Height (M):</b> 117.946 0.0001
<b>Easting (SFT)</b> 595,785.0801		<b>Geoid Height (M):</b> -30.290 0.0001
<b>Elevation (SFT)*</b> 486.337		

  

<b>Convergence Angle</b> -1 23 52.7426014	<b>Scale Factor</b> 0.999945916	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999767375	<b>Combined Adjust. Factor</b> 0.9999226548	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 1540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 0.4 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B AND 24.3' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	264	19.72	64.7	650036A
MK # 2	GAS MNETER	19.72	28.13	92.3	
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARGS <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650036A	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723, 040889
---------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	112,986.7489 0.0030
<b>Easting (M)</b>	181,153.1742 0.0030
<b>Elevation (M)*</b>	144.908
<b>Northing (SFT)</b>	370,690.6920
<b>Easting (SFT)</b>	594,333.3724
<b>Elevation (SFT)*</b>	475.418

  

<b>Convergence Angle</b>	-1	24	2.9482360
<b>Scale Factor</b>	0.999945907		
<b>Elevation Adjust. Factor</b>	0.9999772598		
<b>Combined Adjust. Factor</b>	0.9999231680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	240	4.66	15.3
MK # 2	LIGHT POLE	151	12.04	39.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARGS Ref Mon # 2    ARFS Ref Mon # 3    ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 &amp; F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 1540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 0.7 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B 33.1', 47.5' WEST OF THE C/L OF A DRIVEWAY AND 69.5' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	650036
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650037	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723
--------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	115,722.7054 0.0020
<b>Easting (M)</b>	179,364.1106 0.0020
<b>Elevation (M)*</b>	131.841

  

<b>Northing (SFT)</b>	379,666.9093	
<b>Easting (SFT)</b>	588,463.7529	
<b>Elevation (SFT)*</b>	432.550	

  

<b>Convergence Angle</b>	-1	24	45.7116386
<b>Scale Factor</b>	0.999944111		
<b>Elevation Adjust. Factor</b>	0.9999793102		
<b>Combined Adjust. Factor</b>	0.9999234224		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF FRESNO STREET AND EAST 45.6' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	59	11.55	37.9
MK # 2	END OF FE/GATE	289	2.68	8.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARGS Ref Mon # 2    ARFS Ref Mon # 3    ARFY, ARR V	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 10px;">           ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 &amp; F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.         </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650037A	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723
---------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	115,704.1419	0.0030	
<b>Easting (M)</b>	179,819.9248	0.0020	
<b>Elevation (M)*</b>	135.414		
<b>Northing (SFT)</b>	379,606.0056		
<b>Easting (SFT)</b>	589,959.2033		
<b>Elevation (SFT)*</b>	444.272		

  

<b>Convergence Angle</b>	-1	24	35.1987292
<b>Scale Factor</b>	0.999944116		
<b>Elevation Adjust. Factor</b>	0.9999787495		
<b>Combined Adjust. Factor</b>	0.9999228667		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RR SIGNAL LIGHT BOX	90	24.08	79.0
<b>MK # 2</b>	LIGHT POLE	91	28.56	93.7
<b>MK # 3</b>	POWER POLE W/GUY	270	22.92	75.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    21    6.6498156
<b>Longitude</b>	94    25    21.7843860
<b>Ellipsoid Height (M):</b>	105.192    0.0001
<b>Geoid Height (M):</b>	-30.222    0.0001

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.05 MILES TO THE MARK ON THE LEFT, 20.7' SOUTH OF THE C/L OF FRESNO STREET AND EAST 33.4', EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650038	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723
--------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	119,070.4155	0.0030			
<b>Easting (M)</b>	180,258.4967	0.0030			
<b>Elevation (M)*</b>	137.146				
<b>Northing (SFT)</b>	390,650.1882				
<b>Easting (SFT)</b>	591,398.0846				
<b>Elevation (SFT)*</b>	449.953				

  

<b>Convergence Angle</b>	-1	24	26.9993554
<b>Scale Factor</b>	0.999942114		
<b>Elevation Adjust. Factor</b>	0.9999784778		
<b>Combined Adjust. Factor</b>	0.9999205930		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTR BANKCORPSOUTH SIGN	236	3.96	13.0
<b>MK # 2</b>	CROSSING LIGHT	59	3.29	10.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35    22    56.2011600
<b>Longitude</b>	94    25    7.6936728
<b>Ellipsoid Height (M):</b>	107.042    0.0001
<b>Geoid Height (M):</b>	-30.104    0.0001

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 52.3' OF THE C/L OF THE HIGHWAY, 40' NORTH OF THE C/L OF SOUTH A STREET AND 29.5' WEST OF THE C/L OF 14th STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038 2019" ON TOP OF A 4' RERBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650038A	<b>Date Monumented</b> 8/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71B	<b>Job Number:</b> 040723
---------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	119,278.0536	0.0030			
<b>Easting (M)</b>	179,896.7256	0.0020			
<b>Elevation (M)*</b>	131.020				
<b>Northing (SFT)</b>	391,331.4142				
<b>Easting (SFT)</b>	590,211.1739				
<b>Elevation (SFT)*</b>	429.856				

  

<b>Convergence Angle</b>	-1	24	35.4558285
<b>Scale Factor</b>	0.999942005		
<b>Elevation Adjust. Factor</b>	0.9999794391		
<b>Combined Adjust. Factor</b>	0.9999214453		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO WEST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH 38' OF THE C/L OF THE HIGHWAY, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARGS</p> <p><b>Ref Mon # 2</b>    ARFS</p> <p><b>Ref Mon # 3</b>    ARFY, ARRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 &amp; F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650039	<b>Date Monumented</b> 4/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040793
--------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	98,457.9397	0.0020			
<b>Easting (M)</b>	180,226.4621	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	323,024.0905				
<b>Easting (SFT)</b>	591,292.9844				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	24	16.0892063
<b>Scale Factor</b>	0.999958691		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS MARKER	4	5.09	16.7
<b>MK # 2</b>	COMBINATION POLE	212	13.17	43.2
<b>MK # 3</b>	FENCE CORNER	190	0.80	2.6

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV	<b>Comments</b>       
---	---

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.6 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 37.8' AND 2.6' NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650039A	<b>Date Monumented</b> 4/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040793
---------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	98,778.5951	0.0020			
<b>Easting (M)</b>	180,277.4641	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	324,076.1074				
<b>Easting (SFT)</b>	591,460.3135				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	24	15.0970873
<b>Scale Factor</b>	0.999958352		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE T INTERSECTION	264	4.94	16.2
<b>MK # 2</b>	SOUTH END OF A CMP	158	2.13	7.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    35    11    57.9471972

**Longitude**    94    24    47.2394952

**Ellipsoid Height (M):**    139.305    0.0100

**Geoid Height (M):**    -30.727    0.0100

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.8 MILES TO THE MARK ON THE LEFT,, WEST OF THE C/L OF THE HIGHWAY 30.4', 5.4' NORTH OF A WITNESS POST AND 57.1' NORTH OF THE C/L OF AN ASPH DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650040	<b>Date Monumented</b> 4/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040793
--------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	105,534.0440	0.0020			
<b>Easting (M)</b>	179,278.4642	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	346,239.6094				
<b>Easting (SFT)</b>	588,182.7613				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	24	41.8999803
<b>Scale Factor</b>	0.999951846		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARDQ	
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 15 36.2990448
<b>Longitude</b>	94 25 33.3005592
<b>Ellipsoid Height (M):</b>	114.681 0.0100
<b>Geoid Height (M):</b>	-30.560 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.45 MILES TO THE MARK ON THE RIGHT,, SOUTHWEST OF THE C/L OF THE HIGHWAY 19.7', AND 11.4' NORTHEAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650040A	<b>Date Monumented</b> 4/8/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 45	<b>Job Number:</b> 040793
---------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	105,807.0271	0.0030			
<b>Easting (M)</b>	179,010.5820	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	347,135.2214				
<b>Easting (SFT)</b>	587,303.8844				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	24	48.2202225
<b>Scale Factor</b>	0.999951611		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/3 GUYS	177	22.31	73.2
<b>MK # 2</b>	GAS METER	250	16.00	52.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFS <b>Ref Mon # 3</b> ARFY, ARRV	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 15 44.9403660
<b>Longitude</b>	94 25 44.1619644
<b>Ellipsoid Height (M):</b>	120.377 0.0110
<b>Geoid Height (M):</b>	-30.556 0.0110

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE HIGHWAY 33 AND 32.3' SOUTH OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650041	<b>Date Monumented</b> 4/28/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 040823
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	101,552.0507	0.0030	
<b>Easting (M)</b>	189,700.1147	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	333,175.3530		
<b>Easting (SFT)</b>	622,374.4596		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	20	39.8909752
<b>Scale Factor</b>	0.999955315		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 10S, WEST OF GREENWOOD, GO NORTH ON HIGHWAY 71 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN, 5.6' NORTH OF THE END OF THE CABLE BARRIER, 6.5' WEST OF THE EDGE OF PAVEMENT OF THE NORTHBOUND LANE AND 9.2' EAST OF THE EDGE OF THE PAVEMENT OF THE SOUTHBOUND LANE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650041" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						650005
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650042	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	110,897.4041	0.0030
<b>Easting (M)</b>	199,992.7340	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	363,835.9000	
<b>Easting (SFT)</b>	656,142.8281	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	47.8989038
<b>Scale Factor</b>	0.999947094		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER HEADWALL	65	2.53	8.3
<b>MK # 2</b>	FENCE CORNER	19	10.21	33.5
<b>MK # 3</b>	WATER VALVE	98	21.64	71.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 18 46.0788300
<b>Longitude</b>	94 11 58.7245380
<b>Ellipsoid Height (M):</b>	105.825 0.0060
<b>Geoid Height (M):</b>	-30.108 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 239' TO THE MARK ON THE LEFT, NORTH OF THE NORTH EDGE OF THE ASPHALT 12.5'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650042A	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	110,616.7820	0.0030			
<b>Easting (M)</b>	200,373.9431	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	362,915.2256				
<b>Easting (SFT)</b>	657,393.5117				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	16	38.9751460
<b>Scale Factor</b>	0.999947297		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE HIGHWAY 32' AND EAST OF THE C/L OF A DRIVEWAY 84.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	273	22.74	74.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARDQ</p> <p>Ref Mon # 2    ARFS</p> <p>Ref Mon # 3    ARFY, ARRV</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650043	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	109,830.5608    0.0030
<b>Easting (M)</b>	202,839.2882    0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	360,335.7649	
<b>Easting (SFT)</b>	665,481.8980	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	15	41.7983524
<b>Scale Factor</b>	0.999947850		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255N AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 29.3' AND EAST OF THE C/L OF A DRIVEWAY 62.4' AND WEST 58' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650043" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance		
		Meters	Feet	
<b>MK # 1</b> COMBINATION POLE W/LIGHT	129	25.94	85.1	<b>AZ Mark Station</b> 650043A
<b>MK # 2</b>				<b>Geodetic Azimuth</b>
<b>MK # 3</b>				<b>Grid Azimuth</b>

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARDQ</p> <p><b>Ref Mon # 2</b>    ARFS</p> <p><b>Ref Mon # 3</b>    ARFY, ARRV</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650043A	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	109,642.3445	0.0030
<b>Easting (M)</b>	203,312.2617	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	359,718.2586	
<b>Easting (SFT)</b>	667,033.6453	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	15	30.8112096
<b>Scale Factor</b>	0.999947986		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER OF A BUILDING	7	1.86	6.1
<b>MK # 2</b>	SERVICE POLE	35	22.10	72.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 18 7.7483880
<b>Longitude</b>	94 9 46.2484944
<b>Ellipsoid Height (M):</b>	117.579 0.0060
<b>Geoid Height (M):</b>	-30.082 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255N AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 72' TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 13' AND AND WEST 72' OF THE C/L OF HIGHWAY 255. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650043A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650044	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	108,511.8130	0.0030			
<b>Easting (M)</b>	206,397.1118	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	356,009.1732				
<b>Easting (SFT)</b>	677,154.5243				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	14	19.2093756
<b>Scale Factor</b>	0.999948818		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	352	16.76	55.0
<b>MK # 2</b>	FENCE CORNER	328	20.94	68.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARR V	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 17 33.2527992
<b>Longitude</b>	94 7 43.1999616
<b>Ellipsoid Height (M):</b>	97.271 0.0060
<b>Geoid Height (M):</b>	-30.061 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 1.8 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 30.1' AND AND EAST 24.8' OF THE C/L OF MORRIS CEMETERY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650044A	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	108,396.2306	0.0030			
<b>Easting (M)</b>	206,858.2912	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	355,629.9666				
<b>Easting (SFT)</b>	678,667.5770				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	14	8.5330291
<b>Scale Factor</b>	0.999948903		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	230	10.76	35.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650045	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	108,339.7555	0.0030
<b>Easting (M)</b>	209,488.7956	0.0030
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	355,444.6812	
<b>Easting (SFT)</b>	687,297.8236	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	7.9367202
<b>Scale Factor</b>	0.999948903		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT	84	29.11	95.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARDQ	
Ref Mon # 2    ARFS	
Ref Mon # 3    ARFY, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   17   29.8222440
<b>Longitude</b>	94   5   40.7171256
<b>Ellipsoid Height (M):</b>	138.398   0.0060
<b>Geoid Height (M):</b>	-30.014   0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 35.5 AND NORTH 24.2' OF THE BROTHERTON BROTHERS FUNERAL HOME SIGN AND 73.6' EAST OF THE C/LOF AN ASPHALT DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650045" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650045A	<b>Date Monumented</b> 5/18/2020	<b>Monumented By</b> ARDOT	<b>County</b> SEBASTIAN	<b>Route</b> 22	<b>Job Number:</b> 040874
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	108,524.1461	0.0030			
<b>Easting (M)</b>	209,925.3824	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	356,049.6360				
<b>Easting (SFT)</b>	688,730.1921				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	12	57.9742144
<b>Scale Factor</b>	0.999948748		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	43	22.04	72.3
<b>MK # 2</b>	GAS METER	278	24.57	80.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARFY, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650049	<b>Date Monumented</b> 1/5/2021	<b>Monumented By</b> AHTD	<b>County</b> Sebastian	<b>Route</b> 96	<b>Job Number:</b> 04X104
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 82,606.5014	<b>0.0030</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 193,438.8308	<b>0.0030</b>	<b>Latitude</b> 35 3 23.4517644
<b>Elevation (M)*</b>		<b>Longitude</b> 94 15 52.3611396
<b>Northing (SFT)</b> 271,018.1633		<b>Ellipsoid Height (M):</b> 158.139 0.0120
<b>Easting (SFT)</b> 634,640.5640		<b>Geoid Height (M):</b> -30.838 0.0120
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 19 3.8518386	<b>Scale Factor</b> 0.999978070	<b>Location Description</b>  FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 24.6' SOUTH OF THE CL OF STATE HWY. 96, 12' NORTH OF A 6 BARB WIRE FENCE.
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FOC MARKER	68	24.75	81.2
<b>MK # 2</b>	GAS METER	358	17.98	59.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	
<b>Ref Mon # 2</b> ARFS, ARFY	
<b>Ref Mon # 3</b> ARRV, OKMC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650049A	<b>Date Monumented</b> 1/5/2021	<b>Monumented By</b> AHTD	<b>County</b> Sebastian	<b>Route</b> 96	<b>Job Number:</b> 04X104
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	82,759.9284	0.0030			
<b>Easting (M)</b>	193,805.2237	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	271,521.5318				
<b>Easting (SFT)</b>	635,842.6381				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	18	55.5211563
<b>Scale Factor</b>	0.999977838		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	229	10.12	33.2
MK # 2	COMBINATION POLE	307	21.98	72.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 ARRV, OKMC	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 3 28.7023716
<b>Longitude</b>	94 15 38.0447712
<b>Ellipsoid Height (M):</b>	154.116 0.0120
<b>Geoid Height (M):</b>	-30.829 0.0120

Location Description
<p>FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 30' SOUTH OF THE CL OF STATE HWY. 96, 15' NORTH OF A 6 BARB WIRE FENCE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660001	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 531,879.7515		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 201,561.3541		<b>Latitude</b> 33 50 13.1147592
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 8 39.0846336
<b>Northing (SFT)</b> 1,745,008.8180		<b>Ellipsoid Height (M):</b> 63.658
<b>Easting (SFT)</b> 661,289.2092		<b>Geoid Height (M):</b> -27.214
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 12 0.2997803	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR .644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS SOUTH FO THE SOUTHEAST END OF THE BRIDGE OVER WILSON CREEK, 8.40 METERS EAST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS EAST OF GUARDRAIL, AND 1 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660001. THE SHOT DISTANCE IS 682.468 METERS.
<b>Scale Factor</b> 0.999924375	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	DRILL POINT IN SE CORNER BRIDGE END	353	9.03	29.6
<b>MK # 2</b>	DRILL POINT IN CENCRETE CURBING	277	15.45	50.7
<b>MK # 3</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	185	14.26	46.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> CAP IS STAMPED 90660001
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660002	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242, R30012
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 531,198.8138		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 201,516.4998		<b>Latitude</b> 33 49 50.9869308
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 8 40.2741132
<b>Northing (SFT)</b> 1,742,774.7749		<b>Ellipsoid Height (M):</b> 62.068
<b>Easting (SFT)</b> 661,142.0498		<b>Geoid Height (M):</b> -27.204
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 12 0.9655209	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR 1.32 KM (0.82 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.63 METERS SOUTH OF THE NORTH END OF A GUARDRAIL, 8.23 METERS WEST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS WEST OF GUARDRAIL, AND 1.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660002". THE SHOT DISTANCE IS 682.468 METERS.
<b>Scale Factor</b> 0.999924748	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	0	8.43	27.7	90660001
<b>MK # 2</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	110	2.03	6.7	2 34 06.366960
<b>MK # 3</b>	PUNCH POINT IN TOP OF GUARDRAIL POST	169	10.88	35.7	3 46 07.330743

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPE 1	CAP IS STAMPED 90660002
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660003	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 27	<b>Job Number:</b> R30012
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 532,102.9801		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 202,721.5580		<b>Latitude</b> 33 50 21.1452504
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 7 54.1476228
<b>Northing (SFT)</b> 1,745,741.1939		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 665,095.6449		<b>Geoid Height (M):</b> -27.833
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 11 35.1489539	<b>Location Description</b>  THE STATION IS IN A FIELD SOUTH OF HWY. 27 BY FOUR CHICKEN HOUSES, 231 FEET SOUTHEAST OF THE SOUTHEAST OF 4TH CHICKEN HOUSE, 5 FEET FROM A FENCE LINE AND 23 FEET SOUTH OF A GATE IN THE FENCE.
<b>Scale Factor</b> 0.999924242	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN RAILROAD TIE FENCE POST	23	12.44	40.8
<b>MK # 2</b>	NBC IN RAILROAD TIE FENCE POST	34	5.54	18.2
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> Old point number 90660003
<b>Ref Mon # 1</b> ASHDOWN NW BASE	
<b>Ref Mon # 2</b> PATE	
<b>Ref Mon # 3</b> FALLS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660004	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 27	<b>Job Number:</b> R30012
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 532,224.6391		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 202,774.4470		<b>Latitude</b> 33 50 25.1289960
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 7 52.1893380
<b>Northing (SFT)</b> 1,746,140.3368		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 665,269.1649		<b>Geoid Height (M):</b> -27.835
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 11 34.0529201	<b>Location Description</b>  THE STATION IS IN A FIELD SOUTH OF HWY. 27 NEAR SOME CHICKEN HOUSES. 3 FEET WEST OF A FENCE LINE, 129 FEET EAST OF THE NORTHEAST CORNER OF THE 3RD CHICKEN HOUSE AND 132 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE 2ND CHICKEN HOUSE.
<b>Scale Factor</b> 0.999924177	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ASHDOWN NW BASE	Old point number 90660004
Ref Mon # 2 PATE	
Ref Mon # 3 FALLS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660005	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 27	<b>Job Number:</b> R30012
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	533,184.5621	
<b>Easting (M)</b>	205,403.9140	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,749,289.6842	
<b>Easting (SFT)</b>	673,896.0078	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	10	37.2488800
<b>Scale Factor</b>	0.999923652		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN GATE POST	77	8.96	29.4
<b>MK # 2</b>	NBC IN GATE BRACE POST	82	16.36	53.7
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ASHDOWN NW BASE <b>Ref Mon # 2</b> PATE <b>Ref Mon # 3</b> FALLS	<b>Comments</b> Old point number 90660005
---	--

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 50 58.0448292
<b>Longitude</b>	94 6 10.6974936
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	-27.834

Location Description
THE STATION IS NORTHEAST OF BEN LOMOND, 45 FEET NORTH OF THE CENTERLINE OF HWY. 27, 29.5 FEET WEST OF A GATE IN A FENCE AND 6 FEET SOUTH OF A FENCE ON TOP OF A HIGH BACKSLOPE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660006	<b>Date Monumented</b> 4/23/1990	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 27	<b>Job Number:</b> R30012
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 533,137.0191		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 205,722.4890		<b>Latitude</b> 33 50 56.7142152
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 5 58.2689832
<b>Northing (SFT)</b> 1,749,133.7035		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 674,941.1993		<b>Geoid Height (M):</b> -27.833
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 10 30.2927585	<b>Location Description</b>  THE STATION IS NORTHEAST OF BEN LOMOND, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 27, 5 FEET NORTH OF A FENCE, 8 FEET NORTH AND 4 FEET EAST OF A TELEPHONE RISER BOX AND 500 FEET EAST OF A CROSSDRAIN ON HWY. 27.
<b>Scale Factor</b> 0.999923673	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE	0	0.00	0.0
<b>MK # 2</b>	NONE	0	0.00	0.0
<b>MK # 3</b>	NONE	0	0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ASHDOWN NW BASE	Old point number 90660006
<b>Ref Mon # 2</b> PATE	
<b>Ref Mon # 3</b> FALLS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660007	<b>Date Monumented</b> 9/17/1992	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 003948, 030249
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,873.5050	
<b>Easting (M)</b>	197,659.9220	
<b>Elevation (M)*</b>	128.623	
<b>Northing (SFT)</b>	1,817,166.6577	
<b>Easting (SFT)</b>	648,489.2608	
<b>Elevation (SFT)*</b>	421.991	

  

<b>Convergence Angle</b>	-1	13	35.4628039
<b>Scale Factor</b>	0.999918470		
<b>Elevation Adjust. Factor</b>	0.9999798153		
<b>Combined Adjust. Factor</b>	0.9998982869		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN POWER POLE	159	45.99	150.9
<b>MK # 2</b>	NBC IN POWER POLE	341	71.03	233.0
<b>MK # 3</b>	NBC IN UNDERGROUND CABLE MARKER	251	28.81	94.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> DEQUEEN CORS 1 <b>Ref Mon # 2</b> X 303 <b>Ref Mon # 3</b> HOCHATOWN	<b>Comments</b> OLD PN = 92660007
---	--------------------------------------

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 2 4.1476416
<b>Longitude</b>	94 11 29.1125184
<b>Ellipsoid Height (M):</b>	100.871
<b>Geoid Height (M):</b>	-27.671

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 46 FEET EAST OF THE CENTER OF U.S. HIGHWAY 71, 31 FEET NORTH OF THE ENTRANCE TO JO-PAULS STORE AND 3.80 FEET WEST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

<b>AZ Mark Station</b>	92660007A
<b>Geodetic Azimuth</b>	170 27 26
<b>Grid Azimuth</b>	171 41 01

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660007A	<b>Date Monumented</b> 9/17/1992	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 003948, 030249
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 553,408.7860		<b>Latitude</b> 34 1 49.1146176
<b>Easting (M)</b> 197,727.8530		<b>Longitude</b> 94 11 26.0770776
<b>Elevation (M)*</b> 107.901		<b>Ellipsoid Height (M):</b> 80.242
		<b>Geoid Height (M):</b> -27.659

  

<b>Northing (SFT)</b> 1,815,641.9921		<b>Location Description</b>
<b>Easting (SFT)</b> 648,712.1311		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET WEST OF THE CENTER OF U.S. HIGHWAY 71, 103 FEET SOUTH OF A FIELD ENTRANCE, AND 1.75 FEET EAST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>
<b>Elevation (SFT)*</b> 354.005		
<b>Convergence Angle</b> -1 13 33.7638960		
<b>Scale Factor</b> 0.999918472		
<b>Elevation Adjust. Factor</b> 0.9999830671		
<b>Combined Adjust. Factor</b> 0.9999015405		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	NBC IN CORNER FENCE POST	341		25.64	84.1
<b>MK # 2</b>	NBC IN POWER POLE	170		13.30	43.6
<b>MK # 3</b>	NBC IN 18" PINE	79		34.41	112.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DEQUEEN CORS 1	<p>OLD PN = 92660007A</p>
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> HOCHATOWN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660008	<b>Date Monumented</b> 9/17/1992	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 003948, 030249, 30108
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 555,283.7991		<b>Latitude</b> 34 2 46.0888152
<b>Easting (M)</b> 192,230.8540		<b>Longitude</b> 94 15 1.9298160
<b>Elevation (M)*</b> 128.623		<b>Ellipsoid Height (M):</b> 100.871
		<b>Geoid Height (M):</b> -27.752

  

<b>Northing (SFT)</b> 1,821,793.5975		<b>Location Description</b>
<b>Easting (SFT)</b> 630,677.3935		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 4.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 45 FEET NORTH OF THE CENTER OF U.S. HIGHWAY 71, 308 FEET EAST OF THE CENTER OF A PAVED PRIVATE DRIVE, AND 2 FEET SOUTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>
<b>Elevation (SFT)*</b> 421.991		
<b>Convergence Angle</b> -1 15 34.5746634		
<b>Scale Factor</b> 0.999918490		
<b>Elevation Adjust. Factor</b> 0.9999798153		
<b>Combined Adjust. Factor</b> 0.9998983069		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>				
<b>Latitude</b>				
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	80	43.64	143.2
<b>MK # 2</b>	NBC IN 10" PINE	168	28.29	92.8
<b>MK # 3</b>	NBC IN 10" PINE	190	29.55	96.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DEQUEEN CORS 1	<p>OLD PN = 92660008</p>
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> HOCHATOWN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660008A	<b>Date Monumented</b> 9/17/1992	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 003948, 030249, 30108
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,252.5600	
<b>Easting (M)</b>	192,748.2010	
<b>Elevation (M)*</b>	121.600	
<b>Northing (SFT)</b>	1,821,691.1073	
<b>Easting (SFT)</b>	632,374.7228	
<b>Elevation (SFT)*</b>	398.949	

  

<b>Convergence Angle</b>	-1	15	23.2722081
<b>Scale Factor</b>	0.999918490		
<b>Elevation Adjust. Factor</b>	0.9999809174		
<b>Combined Adjust. Factor</b>	0.9998994089		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 5.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 71, 121 FEET EAST OF THE SOUTH ENTRANCE TO TAYLOR TRACTOR EQUIPMENT AND 1.9 FEET NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	293	52.69	172.9
<b>MK # 2</b>	NBC IN COMBINATION POLE	262	30.03	98.5
<b>MK # 3</b>	NBC IN POWER POLE	52	55.86	183.3

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    DEQUEEN CORS 1</p> <p><b>Ref Mon # 2</b>    X 303</p> <p><b>Ref Mon # 3</b>    HOCHATOWN</p>	<p style="text-align: center;"><b>Comments</b></p> <p>OLD PN = 92660008A</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
660009 RESET	4/2/2002	AHTD	SEVIER	70	30108, 3948, 030249,030427

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,369.8650	
<b>Easting (M)</b>	184,514.9870	
<b>Elevation (M)*</b>	132.487	
<b>Northing (SFT)</b>	1,822,075.9654	
<b>Easting (SFT)</b>	605,362.9198	
<b>Elevation (SFT)*</b>	434.669	

  

<b>Convergence Angle</b>	-1	18	22.9594533
<b>Scale Factor</b>	0.999918488		
<b>Elevation Adjust. Factor</b>	0.9999792089		
<b>Combined Adjust. Factor</b>	0.9998976986		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	19	6.70	22.0
MK # 2	POWER POLE	242	12.25	40.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 DEQUEEN CORS 1	DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 2 43.2741588
<b>Longitude</b>	94 20 2.7831156
<b>Ellipsoid Height (M):</b>	104.708
<b>Geoid Height (M):</b>	-27.814

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO WEST ON U.S. HIGHWAY 70 FOR 0.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS WEST OF THE CENTER OF A CONCRETE DRIVE TO THE FARM BUREAU OFFICE, 7.30 METERS SOUTH OF THE EDGE OF A CONCRETE SIDEWALK, 5.00 METERS NORTH OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660009 RESET 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660009A	<b>Date Monumented</b> 9/17/1992	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 70	<b>Job Number:</b> 30108, 3948, 030249, 030427
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 555,361.3980		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 184,831.8690		<b>Latitude</b> 34 2 43.2337308
<b>Elevation (M)*</b> 126.174		<b>Longitude</b> 94 19 50.4231384
<b>Northing (SFT)</b> 1,822,048.1866		<b>Ellipsoid Height (M):</b> 98.459
<b>Easting (SFT)</b> 606,402.5569		<b>Geoid Height (M):</b> -27.812
<b>Elevation (SFT)*</b> 413.957		

  

<b>Convergence Angle</b> -1 18 16.0416891	<b>Location Description</b>  THIS STATION IS LOCATED 168 FEET WEST OF THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 IN DEQUEEN, 66 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 33 FEET EAST OF A CONCRETE ENTRANCE TO WAL-MART, AND 1.34 METERS NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.
<b>Scale Factor</b> 0.999918488	
<b>Elevation Adjust. Factor</b> 0.9999801995	
<b>Combined Adjust. Factor</b> 0.9998986891	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LIGHT BASE BOLT	235	6.25	20.5
MK # 2	NBC IN LIGHT POLE	87	37.73	123.8
MK # 3	"X" CUT IN RETAINING WALL	104	23.01	75.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> DEQUEEN CORS 1	DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> HOCHATOWN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660011	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 030249, 30006
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	563,185.1470	
<b>Easting (M)</b>	186,334.3670	
<b>Elevation (M)*</b>	216.149	
<b>Northing (SFT)</b>	1,847,716.6031	
<b>Easting (SFT)</b>	611,332.0024	
<b>Elevation (SFT)*</b>	709.149	

  

<b>Convergence Angle</b>	-1	17	47.1238612
<b>Scale Factor</b>	0.999919483		
<b>Elevation Adjust. Factor</b>	0.9999660803		
<b>Combined Adjust. Factor</b>	0.9998855661		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.10 METERS WEST NORTHWEST OF THE CENTER OF U.S. HIGHWAY 71, 24.84 METERS NORTH NORTHEAST OF THE CENTER OF A DRIVEWAY AND 0.50 METERS EAST SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GAS METER	352	4.60	15.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DEQUEEN CORS 1</p> <p>Ref Mon # 2    X 303</p> <p>Ref Mon # 3    HOCHATOWN</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660011A	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 030249, 30006
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	563,490.1120
<b>Easting (M)</b>	186,671.0710
<b>Elevation (M)*</b>	202.891
<b>Northing (SFT)</b>	1,848,717.1425
<b>Easting (SFT)</b>	612,436.6721
<b>Elevation (SFT)*</b>	665.652

  

<b>Convergence Angle</b>	-1	17	39.9221673
<b>Scale Factor</b>	0.999919554		
<b>Elevation Adjust. Factor</b>	0.9999681608		
<b>Combined Adjust. Factor</b>	0.9998877174		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHA, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	24.45	80.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="DEQUEEN CORS 1"/></p> <p>Ref Mon # 2 <input type="text" value="X 303"/></p> <p>Ref Mon # 3 <input type="text" value="HOCHATOWN"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660012	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> N/A	<b>Job Number:</b> 030249, 30006
--------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	566,652.1949
<b>Easting (M)</b>	186,928.6930
<b>Elevation (M)*</b>	184.367
<b>Northing (SFT)</b>	1,859,091.4094
<b>Easting (SFT)</b>	613,281.8870
<b>Elevation (SFT)*</b>	604.877

  

<b>Convergence Angle</b>	-1	17	35.8554716
<b>Scale Factor</b>	0.999920411		
<b>Elevation Adjust. Factor</b>	0.9999710676		
<b>Combined Adjust. Factor</b>	0.9998914809		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF KING ROAD ON THE LEFT. TURN LEFT (EAST) ON KING ROAD AND GO 0.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF A PAVED ROAD (KING ROAD), 30.00 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DEQUEEN CORS 1</p> <p>Ref Mon # 2    X 303</p> <p>Ref Mon # 3    HOCHATOWN</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660012A	<b>Date Monumented</b> 2/2/1994	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> N/A	<b>Job Number:</b> 030249, 30006
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	566,675.5340	
<b>Easting (M)</b>	186,479.1060	
<b>Elevation (M)*</b>	186.102	
<b>Northing (SFT)</b>	1,859,167.9811	
<b>Easting (SFT)</b>	611,806.8669	
<b>Elevation (SFT)*</b>	610.570	

  

<b>Convergence Angle</b>	-1	17	45.6876561
<b>Scale Factor</b>	0.999920415		
<b>Elevation Adjust. Factor</b>	0.9999707954		
<b>Combined Adjust. Factor</b>	0.9998912127		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF BELLA MINE ROAD ON THE RIGHT. TURN RIGHT (WEST) ON BELLA MINE ROAD AND GO 0.06 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.00 METERS NORTH OF BELLA MINE ROAD, 3.75 METERS SOUTH OF THE EDGE OF A GARDEN, 50.74 METERS WEST OF THE CENTER OF A DRIVEWAY AND 1.25 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012A 1991" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF WOODEN BARN	50	25.00	82.0
MK # 2	NGS BENCH MARK L 302	85	84.04	275.7
MK # 3	12" CEDAR	140	25.63	84.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DEQUEEN CORS 1</p> <p>Ref Mon # 2    X 303</p> <p>Ref Mon # 3    HOCHATOWN</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660013	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	536,870.8130	
<b>Easting (M)</b>	199,730.7173	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,761,383.6590	
<b>Easting (SFT)</b>	655,283.1950	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	42.4414432
<b>Scale Factor</b>	0.999922007		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATIO FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 5.19 KM (3.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.50 METERS SOUTH OF THE CENTER OF TIMBER RIDGE ROAD, 12.65 METERS EAST OF THE CENTER OF U S HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.735 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	347	19.55	64.1
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	660013A
<b>Geodetic Azimuth</b>	355 44 38.13939
<b>Grid Azimuth</b>	356 57 20.58296

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660013A	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	537,546.5305	
<b>Easting (M)</b>	199,694.7808	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,763,600.5755	
<b>Easting (SFT)</b>	655,165.2933	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	43.5353452
<b>Scale Factor</b>	0.999921731		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	182	3.10	10.2
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	660013
<b>Geodetic Azimuth</b>	175 44 37.04972
<b>Grid Azimuth</b>	176 57 20.58296

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	HOPE 1
<b>Ref Mon # 2</b>	X 303
<b>Ref Mon # 3</b>	DEQUEEN CORS 1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660014	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	541,250.6237	
<b>Easting (M)</b>	198,803.7242	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,775,753.0879	
<b>Easting (SFT)</b>	652,241.8851	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	4.6557096
<b>Scale Factor</b>	0.999920421		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	5	8.10	26.6
<b>MK # 2</b>	CONCRETE RIGHT OF WAY MARKER	170	15.15	49.7
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> DEQUEEN CORS 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 55 15.3209316
<b>Longitude</b>	94 10 34.0694472
<b>Ellipsoid Height (M):</b>	83.049
<b>Geoid Height (M):</b>	-27.388

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURD, GO NORTH ON U S HIGHWAY 71 FOR 9.65 KM (6.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.60 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 62 mm CAP STAMPED "660014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.529 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660014A	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 542,161.6001		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 198,832.9524		<b>Latitude</b> 33 55 44.9029884
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 10 33.6855936
<b>Northing (SFT)</b> 1,778,741.8497		<b>Ellipsoid Height (M):</b> 92.807
<b>Easting (SFT)</b> 652,337.7780		<b>Geoid Height (M):</b> -27.406
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 13 4.4408703	<b>Location Description</b>
<b>Scale Factor</b> 0.999920149	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURD, GO NORTH ON U S HIGHWAY 71 FOR 10.57 KM (6.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS EAST OF THE CENTER OF MELROSE ROAD, 12.90 METERS WEST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660014A 2001" SET ON TOP OF AN IRON ROD 0.37 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.529 METERS.</p>
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHAINLINK FENCE CORNER POST	196	30.40	99.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660015	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030242
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	546,683.1769	
<b>Easting (M)</b>	199,491.2238	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,793,576.3895	
<b>Easting (SFT)</b>	654,497.4568	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	52.1867317
<b>Scale Factor</b>	0.999919098		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR 0.16 KM (0.10 MI) TO NORTH WEST AVENUE. TURN NORTH ON NORTH WEST AVENUE AND GO 0.29 KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE RIGHT. THE STATION IS 14.00 METERS EAST OF THE CENTER OF NORTH WEST AVENUE, 10.33 METERS NORTH OF THE NORTH RAIL, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	99	19.90	65.3		
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660015A	<b>Date Monumented</b> 5/7/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 371	<b>Job Number:</b> 30108, 030015
---------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	546,688.9927	
<b>Easting (M)</b>	199,066.4005	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,793,595.4702	
<b>Easting (SFT)</b>	653,103.6823	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	1.4501119
<b>Scale Factor</b>	0.999919098		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR .499KM (.31 MI) TO NORTH PARK AVENUE. TURN NORTH ON NORTH PARK AVENUE AND GO .29KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE LEFT. THE STATION IS 11.48 METERS SOUTH OF THE SOUTH RAIL, 10.48 METERS NORTH OF THE NORTH RAIL, 11.00 METERS WEST OF THE CENTER OF NORTH PARK AVENUE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.80 DIAMETER CONCRETE PIPE	156	7.90	25.9
MK # 2	0.80 DIAMETER CONCRETE PIPE	22	7.30	24.0
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HOPE 1</p> <p><b>Ref Mon # 2</b>    X 303</p> <p><b>Ref Mon # 3</b>    DEQUEEN CORS 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660016	<b>Date Monumented</b> 5/8/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030015
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	550,183.5161	
<b>Easting (M)</b>	198,975.5133	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,805,060.4191	
<b>Easting (SFT)</b>	652,805.4966	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	5.0510626
<b>Scale Factor</b>	0.999918634		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 71, AND U S HIGHWAY 371 IN LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 3.88 KM (2.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 48.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.35 METERS WEST OF THE CENTER OF U S HIGHWAY 71, AND 1.45 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660016 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 422.324 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL FENCE POST	323	2.70	8.9
MK # 2	BRICK FENCE POST	343	37.20	122.0
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1: HOPE 1</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: DEQUEEN CORS 1</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660016A	<b>Date Monumented</b> 5/8/2001	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030015
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	549,773.4129	
<b>Easting (M)</b>	199,076.1848	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,803,714.9388	
<b>Easting (SFT)</b>	653,135.7830	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	2.6656747
<b>Scale Factor</b>	0.999918673		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORRIGATED METAL PIPE	336	17.55	57.6
<b>MK # 2</b>	POWER POLE	345	26.00	85.3
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	660016
<b>Geodetic Azimuth</b>	344 59 25.58513
<b>Grid Azimuth</b>	346 12 28.25189

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HOPE 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> DEQUEEN CORS 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660017	<b>Date Monumented</b> 4/2/2002	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030249
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	559,265.7730	
<b>Easting (M)</b>	185,573.1770	
<b>Elevation (M)*</b>	174.140	
<b>Northing (SFT)</b>	1,834,857.7903	
<b>Easting (SFT)</b>	608,834.6649	
<b>Elevation (SFT)*</b>	571.324	

  

<b>Convergence Angle</b>	-1	18	1.8020492
<b>Scale Factor</b>	0.999918794		
<b>Elevation Adjust. Factor</b>	0.9999726725		
<b>Combined Adjust. Factor</b>	0.9998914687		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THIS STATION IS LOCATED AT THE A.H.T.D. SEVIER COUNTY AREA MAINT. HEADQUARTERS. THE STATION IS 12.00 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST PAVED DRIVE TO THE MAINT. AREA PARKING LOT, 10.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL, BY CREW S5102 FROM NOAA BENCH MARK S 302.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER LINE OF A CONCRETE HEAD WAL	317	7.00	23.0
MK # 2	GAS METER	174	30.50	100.1
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="DEQUEEN CORS 1"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="X 303"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="HOCHATOWN"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660017A	<b>Date Monumented</b> 4/2/2002	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 30108, 030249
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 559,919.4490		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 185,675.0740		<b>Latitude</b> 34 5 11.7600576
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 19 21.5859036
<b>Northing (SFT)</b> 1,837,002.3923		<b>Ellipsoid Height (M):</b> 157.239
<b>Easting (SFT)</b> 609,168.9719		<b>Geoid Height (M):</b> -27.914
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 17 59.9017574	<b>Location Description</b>  TO REACH THIS STATION FROM THE A.H.T.D. SEVIER COUNTY AREA MAINT. HEADQUARTERS, GO NORTH ON U.S. HIGHWAY 71 FOR 0.41 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999918883	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 3 SIGN POST	339	15.50	50.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> 
Ref Mon # 1 DEQUEEN CORS 1	
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660018	<b>Date Monumented</b> 4/2/2002	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 030249
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	571,349.2679	
<b>Easting (M)</b>	186,122.0510	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,874,501.7231	
<b>Easting (SFT)</b>	610,635.4290	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	17	55.8017737
<b>Scale Factor</b>	0.999922129		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHERN MOST WOODEN GATE POST	207	11.35	37.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 DEQUEEN CORS 1	
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 11 22.9710948
<b>Longitude</b>	94 19 14.2604580
<b>Ellipsoid Height (M):</b>	209.037
<b>Geoid Height (M):</b>	-28.256

Location Description
<p>TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.13 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 2.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660018 2002" SET ON TOP OF AN IRON ROD 0.95 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	570006
<b>Geodetic Azimuth</b>	18 37 33
<b>Grid Azimuth</b>	19 55 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660019A	<b>Date Monumented</b> 4/8/2002	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 70	<b>Job Number:</b> 030249
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,442.4020	
<b>Easting (M)</b>	181,811.9740	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,822,313.9472	
<b>Easting (SFT)</b>	596,494.7847	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	21.9684118
<b>Scale Factor</b>	0.999918488		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	138	20.80	68.2
<b>MK # 2</b>	POLE WITH SIREN MOUNTED ON TOP	153	26.60	87.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DEQUEEN CORS 1	
<b>Ref Mon # 2</b> X 303	
<b>Ref Mon # 3</b> HOCHATOWN	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 2 43.6151724
<b>Longitude</b>	94 21 48.2144904
<b>Ellipsoid Height (M):</b>	96.576
<b>Geoid Height (M):</b>	-27.836

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 399 LOCATED ON THE WEST SIDE OF DEQUEEN, GO EAST ON U.S. HIGHWAY 70 FOR 0.19 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF HOMERUN DRIVE, 17.95 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660020	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	528,515.1391	
<b>Easting (M)</b>	201,265.7310	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,733,970.0855	
<b>Easting (SFT)</b>	660,319.3191	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	5.1982232
<b>Scale Factor</b>	0.999926331		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 6.40 METERS SOUTH OF A GRAVEL ROAD, (RIVER ROAD), AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020 2003" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL		7.10	23.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    X 303, 660015,660017 Ref Mon # 2    DQUA CORS,410001 Ref Mon # 3    ARTX CORS, HOPE CORS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660020A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 71	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	527,348.4782	
<b>Easting (M)</b>	201,156.8490	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,730,142.4656	
<b>Easting (SFT)</b>	659,962.0954	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	12	7.0346330
<b>Scale Factor</b>	0.999927075		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN GUARD RAIL POST	151	5.22	17.1
<b>MK # 2</b>	PUNCH MARK IN GUARD RAIL POST	62	1.50	4.9
<b>MK # 3</b>	PUNCH MARK IN GUARD RAIL POST	126	4.48	14.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> X 303, 660015, 660017	
<b>Ref Mon # 2</b> DQUA CORS, 410001	
<b>Ref Mon # 3</b> ARTX CORS, HOPE CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 47 45.7935072
<b>Longitude</b>	94 8 51.1178028
<b>Ellipsoid Height (M):</b>	61.697
<b>Geoid Height (M):</b>	-27.154

Location Description
<p>TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 0.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.15 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 1.25 METERS WEST OF GUARD RAIL, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660021	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 24	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	547,311.9861	
<b>Easting (M)</b>	193,680.2320	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,795,639.4077	
<b>Easting (SFT)</b>	635,432.5612	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	14	59.1575149
<b>Scale Factor</b>	0.999919012		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 24 AND 1.10 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    X 303, 660015, 660017</p> <p><b>Ref Mon # 2</b>    DQUA CORS, 410001</p> <p><b>Ref Mon # 3</b>    ARTX CORS, HOPE CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660021A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 24	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	547,119.9390	
<b>Easting (M)</b>	194,270.4030	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,795,009.3332	
<b>Easting (SFT)</b>	637,368.8138	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	14	46.2008136
<b>Scale Factor</b>	0.999919042		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	112	6.20	20.3
MK # 2	CORRIGATED METAL PIPE	358	3.25	10.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    X 303, 660015,660017	
Ref Mon # 2    DQUA CORS,410001	
Ref Mon # 3    ARTX CORS, HOPE CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    58    22.6193664
<b>Longitude</b>	94    13    35.5002024
<b>Ellipsoid Height (M):</b>	76.004
<b>Geoid Height (M):</b>	-27.546

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 24 AND 3.60 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	660021
<b>Geodetic Azimuth</b>	286 46 45
<b>Grid Azimuth</b>	288 01 31

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660022	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 329	<b>Job Number:</b> 030208
--------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	551,961.9411	
<b>Easting (M)</b>	188,606.6050	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,810,895.1351	
<b>Easting (SFT)</b>	618,786.8366	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	52.0271734
<b>Scale Factor</b>	0.999918524		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	REINFORCED CONCRETE PIPE	295	4.85	15.9
<b>MK # 2</b>	REINFORCED CONCRETE PIPE	155	9.20	30.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> X 303, 660015, 660017	
<b>Ref Mon # 2</b> DQUA CORS, 410001	
<b>Ref Mon # 3</b> ARTX CORS, HOPE CORS	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 34 0 55.6877700

**Longitude** 94 17 20.3143056

**Ellipsoid Height (M):** 111.993

**Geoid Height (M):** -27.696

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN, GO SOUTH ON STATE HIGHWAY 329 FOR 2.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.2 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 329, 8.3 METERS NORTH OF A GRAVEL DRIVE, AND 1.25 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	660022A
<b>Geodetic Azimuth</b>	129 43 17
<b>Grid Azimuth</b>	131 00 09

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660022A	<b>Date Monumented</b> 2/11/2003	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> 329	<b>Job Number:</b> 030208
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	551,545.2620	
<b>Easting (M)</b>	189,085.8980	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,809,528.0804	
<b>Easting (SFT)</b>	620,359.3170	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	41.3710171
<b>Scale Factor</b>	0.999918547		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY WIRE	332	1.95	6.4
MK # 2	FENCE CORNER	108	10.40	34.1
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 X 303, 660015, 660017	
Ref Mon # 2 DQUA CORS, 410001	
Ref Mon # 3 ARTX CORS, HOPE CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 0 42.5141136
<b>Longitude</b>	94 17 1.2749388
<b>Ellipsoid Height (M):</b>	116.202
<b>Geoid Height (M):</b>	-27.682

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN, GO SOUTH ON STATE HIGHWAY 329 FOR 3.34 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 329 AND 0.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	660022
<b>Geodetic Azimuth</b>	309 43 28
<b>Grid Azimuth</b>	311 00 09

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660023	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> hwy.70	<b>Job Number:</b> 030412
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	557,209.3960		
<b>Easting (M)</b>	171,875.6332		
<b>Elevation (M)*</b>	107.777		
<b>Northing (SFT)</b>	1,828,111.1600		
<b>Easting (SFT)</b>	563,895.3066		
<b>Elevation (SFT)*</b>	353.598		

  

<b>Convergence Angle</b>	-1	22	59.6781726
<b>Scale Factor</b>	0.999918563		
<b>Elevation Adjust. Factor</b>	0.9999830866		
<b>Combined Adjust. Factor</b>	0.9999016509		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	south of cl. hwy 70	350	22.25	73.0
<b>MK # 2</b>	NE of telephone box	257	23.16	76.0
<b>MK # 3</b>	North of T of fence	170	2.43	8.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660023A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> hwy.70	<b>Job Number:</b> 030412
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	557,297.4789	
<b>Easting (M)</b>	172,569.2383	
<b>Elevation (M)*</b>	106.822	
<b>Northing (SFT)</b>	1,828,400.1454	
<b>Easting (SFT)</b>	566,170.9093	
<b>Elevation (SFT)*</b>	350.464	

  

<b>Convergence Angle</b>	-1	22	44.5897396
<b>Scale Factor</b>	0.999918570		
<b>Elevation Adjust. Factor</b>	0.9999832365		
<b>Combined Adjust. Factor</b>	0.9999018079		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of cl of hwy.71	345	14.93	49.0
MK # 2	West of 36" pine	83	30.00	98.4
MK # 3	East of 36" pine stump	252	32.00	105.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
--	---

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	34 3 36.7369812
<b>Longitude</b>	94 27 50.2382520
<b>Ellipsoid Height (M):</b>	78.884
<b>Geoid Height (M):</b>	-27.952

Location Description
From the Arkansas and Oklahoma state line, go east on hwy. 70 for 0.5 miles to the station on the right, station is a standard alum. cap stamped 660023A 2012 on a 4 ft.x5/8s rebar.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660024	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> Hwy.70	<b>Job Number:</b> 030412
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,473.9023	
<b>Easting (M)</b>	177,961.0493	
<b>Elevation (M)*</b>	106.592	
<b>Northing (SFT)</b>	1,822,417.2945	
<b>Easting (SFT)</b>	583,860.5426	
<b>Elevation (SFT)*</b>	349.711	

  

<b>Convergence Angle</b>	-1	20	46.0005981
<b>Scale Factor</b>	0.999918486		
<b>Elevation Adjust. Factor</b>	0.9999832725		
<b>Combined Adjust. Factor</b>	0.9999017599		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southwest of 36" CMP	40	8.84	29.0
MK # 2	West of Sevier Co. Airport entrance	90	14.32	47.0
MK # 3	South of cl hwy.70	190	31.00	101.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.         </td> </tr> </table>	Comments	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
Comments			
3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.			

  

Location Description
From the Arkansas and Oklahoma state line, go east on hwy. 70 for 4.2 miles to the station on the left. Standard alum cap stamped 660024 2012, on a 4 ft.x5/8s rebar.

  

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660024A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> hwy.70	<b>Job Number:</b> 030412
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	555,741.1691	
<b>Easting (M)</b>	177,325.6680	
<b>Elevation (M)*</b>	103.737	
<b>Northing (SFT)</b>	1,823,294.1523	
<b>Easting (SFT)</b>	581,775.9624	
<b>Elevation (SFT)*</b>	340.344	

  

<b>Convergence Angle</b>	-1	21	0.0000858
<b>Scale Factor</b>	0.999918494		
<b>Elevation Adjust. Factor</b>	0.9999837205		
<b>Combined Adjust. Factor</b>	0.9999022159		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE of cl hwy.70	215	24.00	78.7
MK # 2	NW fo gravel dr.	120	5.49	18.0
MK # 3	South of fence w/ 5 stran barb	30	3.00	9.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660025	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> hwy.70	<b>Job Number:</b> 030413
--------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	560,504.3440		
<b>Easting (M)</b>	206,848.8038		
<b>Elevation (M)*</b>	115.292		
<b>Northing (SFT)</b>	1,838,921.3353		
<b>Easting (SFT)</b>	678,636.4505		
<b>Elevation (SFT)*</b>	378.254		

  

<b>Convergence Angle</b>	-1	10	17.9588727
<b>Scale Factor</b>	0.999919045		
<b>Elevation Adjust. Factor</b>	0.9999819072		
<b>Combined Adjust. Factor</b>	0.9999009537		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North of 5 strand barb fence	175	13.71	45.0
MK # 2	South of cl hwy.70	350	14.94	49.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012
Comments			
DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660025A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> Hwy.70	<b>Job Number:</b> 030413
---------------------------	-------------------------------------	------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	560,511.2030	
<b>Easting (M)</b>	207,538.7616	
<b>Elevation (M)*</b>	113.992	
<b>Northing (SFT)</b>	1,838,943.8385	
<b>Easting (SFT)</b>	680,900.0870	
<b>Elevation (SFT)*</b>	373.989	

  

<b>Convergence Angle</b>	-1	10	2.8990793
<b>Scale Factor</b>	0.999919048		
<b>Elevation Adjust. Factor</b>	0.9999821113		
<b>Combined Adjust. Factor</b>	0.9999011607		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North of cl hwy.70	175	15.54	51.0
<b>MK # 2</b>	NW of GR	105	32.00	105.0
<b>MK # 3</b>	SW of Powerpole	62	32.61	107.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012
Comments			
DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660026	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> 41	<b>Job Number:</b> 030415
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	542,618.9358		
<b>Easting (M)</b>	180,649.4962		
<b>Elevation (M)*</b>	109.057		
<b>Northing (SFT)</b>	1,780,242.2919		
<b>Easting (SFT)</b>	592,680.8888		
<b>Elevation (SFT)*</b>	357.799		

  

<b>Convergence Angle</b>	-1	19	40.8447085
<b>Scale Factor</b>	0.999920134		
<b>Elevation Adjust. Factor</b>	0.9999828857		
<b>Combined Adjust. Factor</b>	0.9999030210		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 41 and 24 in Horatio go south on hwy-41 for 1.05 miles to the station on the right at the crest of a hill. 35 feet west of the center of hwy-41 and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "660026 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					660026A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660026A	<b>Date Monumented</b> 2/23/2012	<b>Monumented By</b> AHTD	<b>County</b> Sevier	<b>Route</b> 41	<b>Job Number:</b> 030415
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,283.5787	
<b>Easting (M)</b>	180,550.1443	
<b>Elevation (M)*</b>	94.758	
<b>Northing (SFT)</b>	1,779,142.0411	
<b>Easting (SFT)</b>	592,354.9318	
<b>Elevation (SFT)*</b>	310.886	

  

<b>Convergence Angle</b>	-1	19	42.8398975
<b>Scale Factor</b>	0.999920232		
<b>Elevation Adjust. Factor</b>	0.9999851296		
<b>Combined Adjust. Factor</b>	0.9999053628		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 41 and 24 in Horatio go south on highway 41 for 1.25 miles to the station on the left near a field entrance. 43.3 feet east of the center of hwy-41, 14.1 feet north of the center of a field entrance and 4 feet west of a witness post. The station mark is a 2 1/2 in. cap stamped "660026A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Comments</b> </div> <div style="border: 1px solid black; padding: 5px;">             ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.           </div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660027	<b>Date Monumented</b> 4/11/2017	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> US-71	<b>Job Number:</b> 030008
--------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 538,967.1475	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 199,337.0968	<b>0.0020</b>	<b>Latitude</b> 33 54 1.5876288
<b>Elevation (M)*</b>		<b>Longitude</b> 94 10 11.4232008
<b>Northing (SFT)</b> 1,768,261.3831		<b>Ellipsoid Height (M):</b> 95.614 0.0060
<b>Easting (SFT)</b> 653,991.7918		<b>Geoid Height (M):</b> -27.421 0.0060
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> -1 12 51.9808164	<b>Scale Factor</b> 0.999921189	<b>Location Description</b>
<b>Elevation Adjust. Factor</b>		<p>TO REACH THE STATION MARK FROMK THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.8 MILES TO THE STATION ON THE RIGHT. 58' WEST OF THE C/L OF THE HIGHWAY AND 47' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "660027 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	S END OF SIDE CULVERT	354	11.28	37.0	
MK # 2	E END OF CHURCH SIGN	168	7.32	24.0	
MK # 3	NE COR OF BRICK CHURCH	226	22.86	75.0	

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 TXCR Ref Mon # 3 OKHV	<b>Comments</b> GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 660027A	<b>Date Monumented</b> 4/11/2017	<b>Monumented By</b> AHTD	<b>County</b> SEVIER	<b>Route</b> US-71	<b>Job Number:</b> 030008
---------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 539,343.5756	<b>0.0020</b>	<b>Geoid Datum:</b> Geoid 12A
<b>Easting (M)</b> 199,168.6168	<b>0.0020</b>	<b>Latitude</b> 33 54 13.6871064
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 10 18.2906616
<b>Northing (SFT)</b> 1,769,496.3809		<b>Ellipsoid Height (M):</b> 86.819 0.0060
<b>Easting (SFT)</b> 653,439.0370		<b>Geoid Height (M):</b> -27.429 0.0060
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 12 55.8244702	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.5 MILES TO THE STATION ON THE RIGHT. 33.5' WEST OF THE C/L OF THE HIGHWAY AND 7' EAST OF A CONCRETE DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "660027A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 0.999921054	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC MARKER	188	16.15	53.0
MK # 2	R/W MARKER	195	13.41	44.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARHP	GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 TXCR	
Ref Mon # 3 OKHV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670001	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	186,973.5509	
<b>Easting (M)</b>	437,085.6230	
<b>Elevation (M)*</b>	186.541	
<b>Northing (SFT)</b>	613,429.0582	
<b>Easting (SFT)</b>	1,434,005.0815	
<b>Elevation (SFT)*</b>	612.010	

  

<b>Convergence Angle</b>	0	14	21.8648933
<b>Scale Factor</b>	0.999964512		
<b>Elevation Adjust. Factor</b>	0.9999707265		
<b>Combined Adjust. Factor</b>	0.9999352395		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CMP	231	6.31	20.7
<b>MK # 2</b>	GATE POST	132	9.56	31.3
<b>MK # 3</b>	CORNER POST	72	4.37	14.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 313 <b>Ref Mon # 2</b> FAA 7M9 A <b>Ref Mon # 3</b> BATEPORT	Elevation by 3 Wire from NGS point A 167

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    36    1    4.5824412

**Longitude**    91    35    18.8757780

**Ellipsoid Height (M):**    158.704

**Geoid Height (M):**    -27.838

  

**Location Description**

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 10.53 KM (6.54 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.32 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 5.886 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 4.26 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670001A	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	187,425.4850	
<b>Easting (M)</b>	436,973.6380	
<b>Elevation (M)*</b>	168.270	
<b>Northing (SFT)</b>	614,911.7787	
<b>Easting (SFT)</b>	1,433,637.6773	
<b>Elevation (SFT)*</b>	552.066	

  

<b>Convergence Angle</b>	0	14	19.3061611
<b>Scale Factor</b>	0.999965052		
<b>Elevation Adjust. Factor</b>	0.9999735936		
<b>Combined Adjust. Factor</b>	0.9999386466		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CMP	9	12.60	41.3
<b>MK # 2</b>	CORNER POST	340	11.30	37.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 313	
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 1 19.2606780
<b>Longitude</b>	91 35 23.2729872
<b>Ellipsoid Height (M):</b>	140.426
<b>Geoid Height (M):</b>	-27.844

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 10.99 KM (6.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.85 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.51 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670001A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670002	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	195,241.8810	
<b>Easting (M)</b>	434,822.9940	
<b>Elevation (M)*</b>	155.100	
<b>Northing (SFT)</b>	640,556.0712	
<b>Easting (SFT)</b>	1,426,581.7728	
<b>Elevation (SFT)*</b>	508.857	

  

<b>Convergence Angle</b>	0	13	30.0368781
<b>Scale Factor</b>	0.999975201		
<b>Elevation Adjust. Factor</b>	0.9999756603		
<b>Combined Adjust. Factor</b>	0.9999508619		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	326	31.92	104.7
<b>MK # 2</b>	SOUTH END CMP	5	35.53	116.6
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 313	Elevation by 3 Wire from NGS point C 166
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670002A	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	195,561.6479	
<b>Easting (M)</b>	434,880.3570	
<b>Elevation (M)*</b>	145.713	
<b>Northing (SFT)</b>	641,605.1732	
<b>Easting (SFT)</b>	1,426,769.9713	
<b>Elevation (SFT)*</b>	478.060	

  

<b>Convergence Angle</b>	0	13	31.4004765
<b>Scale Factor</b>	0.999975647		
<b>Elevation Adjust. Factor</b>	0.9999771334		
<b>Combined Adjust. Factor</b>	0.9999527810		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST	6	14.20	46.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 313	
<b>Ref Mon # 2</b> FAA 7M9 A	
<b>Ref Mon # 3</b> BATEPORT	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 5 43.5118992
<b>Longitude</b>	91 36 45.5994288
<b>Ellipsoid Height (M):</b>	117.774
<b>Geoid Height (M):</b>	-27.939

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 19.86 KM (12.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 2.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "670002A 1999" SET ON TOP OF AN IRON ROD 0.66 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	670002
<b>Geodetic Azimuth</b>	190 23 43.63353
<b>Grid Azimuth</b>	190 10 12.22460

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670003	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	199,183.2850	
<b>Easting (M)</b>	435,434.9940	
<b>Elevation (M)*</b>	191.661	
<b>Northing (SFT)</b>	653,487.1609	
<b>Easting (SFT)</b>	1,428,589.6428	
<b>Elevation (SFT)*</b>	628.808	

  

<b>Convergence Angle</b>	0	13	44.6393406
<b>Scale Factor</b>	0.999980883		
<b>Elevation Adjust. Factor</b>	0.9999699230		
<b>Combined Adjust. Factor</b>	0.9999508066		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	184	9.30	30.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;"><b>Ref Mon # 1</b></td> <td>Q 313</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>FAA 7M9 A</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>BATEPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	Q 313	<b>Ref Mon # 2</b>	FAA 7M9 A	<b>Ref Mon # 3</b>	BATEPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from NGS point F 167</td> </tr> </table>	Comments	Elevation by 3 Wire from NGS point F 167
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	Q 313										
<b>Ref Mon # 2</b>	FAA 7M9 A										
<b>Ref Mon # 3</b>	BATEPORT										
Comments											
Elevation by 3 Wire from NGS point F 167											

  

Location Description	
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 24.09 KM (14.97 MI) TO THE STATION OF THE LEFT. THE STATION IS 17.74 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670003 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670003A	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	198,778.7409	
<b>Easting (M)</b>	435,504.8650	
<b>Elevation (M)*</b>	191.343	
<b>Northing (SFT)</b>	652,159.9191	
<b>Easting (SFT)</b>	1,428,818.8779	
<b>Elevation (SFT)*</b>	627.764	

  

<b>Convergence Angle</b>	0	13	46.2276417
<b>Scale Factor</b>	0.999980282		
<b>Elevation Adjust. Factor</b>	0.9999699729		
<b>Combined Adjust. Factor</b>	0.9999502555		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 24.51 KM (15.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 45.043 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 17.111 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "670003A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE R/W MARKER	171	23.65	77.6
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 313</p> <p><b>Ref Mon # 2</b>    FAA 7M9 A</p> <p><b>Ref Mon # 3</b>    BATEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3 Wire from NGS point E 167</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670004	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,894.2950	
<b>Easting (M)</b>	434,107.9980	
<b>Elevation (M)*</b>	239.240	
<b>Northing (SFT)</b>	675,504.8662	
<b>Easting (SFT)</b>	1,424,235.9901	
<b>Elevation (SFT)*</b>	784.907	

  

<b>Convergence Angle</b>	0	13	14.3594081
<b>Scale Factor</b>	0.999991461		
<b>Elevation Adjust. Factor</b>	0.9999624569		
<b>Combined Adjust. Factor</b>	0.9999539182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END CMP	159	26.92	88.3
<b>MK # 2</b>	CORNER POST	190	11.04	36.2
<b>MK # 3</b>	GUY POLE	353	12.60	41.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 313 <b>Ref Mon # 2</b> FAA 7M9 A <b>Ref Mon # 3</b> BATEPORT	Elevation by 3 Wire from NGS point Q 166

  

Location Description	
TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 31.38 KM (19.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.78 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 29.00 METERS NORTH OF A GRAVEL DRIVEWAY AND 1.78 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	670004A
<b>Geodetic Azimuth</b>	0 37 34.938096
<b>Grid Azimuth</b>	0 24 20.579526

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670004A	<b>Date Monumented</b> 3/19/1999	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 167	<b>Job Number:</b> 050070
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	206,344.6080		
<b>Easting (M)</b>	434,111.1870		
<b>Elevation (M)*</b>	233.696		
<b>Northing (SFT)</b>	676,982.2681		
<b>Easting (SFT)</b>	1,424,246.4527		
<b>Elevation (SFT)*</b>	766.718		

  

<b>Convergence Angle</b>	0	13	14.4740732
<b>Scale Factor</b>	0.999992210		
<b>Elevation Adjust. Factor</b>	0.9999633268		
<b>Combined Adjust. Factor</b>	0.9999555371		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF CONCRETE HEADWALL	32	17.80	58.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;"><b>Ref Mon # 1</b></td> <td>Q 313</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>FAA 7M9 A</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>BATEPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	Q 313	<b>Ref Mon # 2</b>	FAA 7M9 A	<b>Ref Mon # 3</b>	BATEPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from NGS point Q 166</td> </tr> </table>	Comments	Elevation by 3 Wire from NGS point Q 166
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	Q 313										
<b>Ref Mon # 2</b>	FAA 7M9 A										
<b>Ref Mon # 3</b>	BATEPORT										
Comments											
Elevation by 3 Wire from NGS point Q 166											

  

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 31.83 KM (19.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.24 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

<b>AZ Mark Station</b>	670004
<b>Geodetic Azimuth</b>	180 37 35.05444
<b>Grid Azimuth</b>	180 24 20.57953

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670005	<b>Date Monumented</b> 7/9/2003	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 62	<b>Job Number:</b> 012157,050064
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,224.6367	
<b>Easting (M)</b>	446,983.9970	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	722,520.3289	
<b>Easting (SFT)</b>	1,466,479.9968	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	16.0039462
<b>Scale Factor</b>	1.000017654		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	19	1.8397668
<b>Longitude</b>	91	28	36.5059452
<b>Ellipsoid Height:</b>	79.912		
<b>Grid Northing (Meters)</b>	220,224.6220		
<b>Grid Easting (Meters)</b>	446,983.9800		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	15	14.80	48.6
<b>MK # 2</b>	GUY WIRE	2	14.50	47.6
<b>MK # 3</b>	10" CONC CULVERT			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 313</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 313A</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BUTLER</td> </tr> </table>	Ref Mon # 1	Q 313	Ref Mon # 2	Q 313A	Ref Mon # 3	BUTLER	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	Q 313						
Ref Mon # 2	Q 313A						
Ref Mon # 3	BUTLER						

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:** Geoid09

**Latitude** 36 19 1.8402420

**Longitude** 91 28 36.5052612

**Ellipsoid Height (M):** 79.827

**Geoid Height (M):** -28.402

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. 7.9 METERS EAST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	670005A
<b>Geodetic Azimuth</b>	14 37 51
<b>Grid Azimuth</b>	14 19 35

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670005A	<b>Date Monumented</b> 7/9/2003	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 62	<b>Job Number:</b> 050064
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,649.0641	
<b>Easting (M)</b>	447,092.3770	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	723,912.8045	
<b>Easting (SFT)</b>	1,466,835.5735	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	18	18.5848292
<b>Scale Factor</b>	1.000018509		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF WOOD SIGN	205	4.70	15.4
<b>MK # 2</b>	8" HICKORY	355	10.20	33.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 313	
<b>Ref Mon # 2</b> Q 313A	
<b>Ref Mon # 3</b> BUTLER	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 19 15.5906544
<b>Longitude</b>	91 28 32.0699856
<b>Ellipsoid Height (M):</b>	81.723
<b>Geoid Height (M):</b>	-28.290

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.40 MILES TO THE STATION ON THE LEFT. 17.0 METERS WEST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 16.0 METERS NORTH OF THE CENTERLINE OF ROBIN HOOD LANE AND 0.20 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670006	<b>Date Monumented</b> 12/9/2003	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 62	<b>Job Number:</b> 050146
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,638.6210	
<b>Easting (M)</b>	439,534.4390	
<b>Elevation (M)*</b>	216.350	
<b>Northing (SFT)</b>	704,193.5424	
<b>Easting (SFT)</b>	1,442,039.2386	
<b>Elevation (SFT)*</b>	709.808	

  

<b>Convergence Angle</b>	0	15	21.6470942
<b>Scale Factor</b>	1.000006867		
<b>Elevation Adjust. Factor</b>	0.9999660488		
<b>Combined Adjust. Factor</b>	0.9999729155		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND 63, IN HARDY, GO SOUTHWESTERLY ON STATE HIGHWAY 62 FOR 7.28 MILES TO A PAVED ROAD ON THE RIGHT, (ALLEGHENY DRIVE). THURN RIGHT RIGHT AND GO NORTHERLY ON ALLEGHENY DRIVE FOR 0.71 MILES TO A T-JUNCTION. TURN LEFT AND GO WEST ON A PAVED ROAD FOR 0.08 MILES TO A GATE. PASS THROUGH THE GATE AND CONTINUE WEST ACROSS THE AIRPORT ENTRANCE ROAD FOR 125 FEET TO AN APRON. CONTINUE WEST ACROSS THE APRON FOR 0.07 MILES TO A RUNWAY AND TURN LEFT AND GO 0.24 MILES TO THE STATION ON THE LEFT, A 1 1/2" PLASTIC CAP ON TOP OF THE ORIGINAL SHAFT SET IN A PIECE OF 3X6 ROCK OUTCROP STAMPED "KITTLER PLS". THE STATION IS 30.1 METERS SOUTHEAST FROM THE RUNWAY CENTERLINE AND 0.9 METERS NORTHWEST FROM A CARSONITE WINESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RUNWAY LIGHT	0	34.30	112.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BUTLER	<p>Elevation by 3 Wire from NGS point D 167</p>
Ref Mon # 2 Q 313	
Ref Mon # 3 FAA 7M9 A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670007	<b>Date Monumented</b> 3/25/2008	<b>Monumented By</b> AHTD	<b>County</b> Sharp	<b>Route</b> 62	<b>Job Number:</b> 050187
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,454.9130	
<b>Easting (M)</b>	436,270.0870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	693,748.3271	
<b>Easting (SFT)</b>	1,431,329.4438	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	5.2435967
<b>Scale Factor</b>	1.000001049		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Right of Way monument	358	3.65	12.0
<b>MK # 2</b>	Combination pole	007	13.87	45.5
<b>MK # 3</b>	Power pole w/guy	240	16.76	55.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARMH <b>Ref Mon # 3</b> ARPG	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 14 18.9662604
<b>Longitude</b>	91 35 47.4396576
<b>Ellipsoid Height (M):</b>	159.960
<b>Geoid Height (M):</b>	-28.097

Location Description
From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go north and east on hwy-62/412 for 0.36 miles to the station on the left at the top of a slope. 96.0 feet northwest of the center of the highway, 85.0 feet southwest of the center of an asphalt drive and 3.0 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "670007 2008" set on top of a 5/8 inch by 4.0 foot rebar and is 0.20 feet below the surface.

<b>AZ Mark Station</b>	670007A
<b>Geodetic Azimuth</b>	224 07 51
<b>Grid Azimuth</b>	223 53 46

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670007A	<b>Date Monumented</b> 3/25/2008	<b>Monumented By</b> AHTD	<b>County</b> Sharp	<b>Route</b> 167	<b>Job Number:</b> 050187
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,965.2320	
<b>Easting (M)</b>	435,798.9220	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	692,141.7653	
<b>Easting (SFT)</b>	1,429,783.6299	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	54.2174627
<b>Scale Factor</b>	1.000000176		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole w/light	196	17.98	59.0
<b>MK # 2</b>	Power pole w/transformer	156	7.92	26.0
<b>MK # 3</b>	South end of 18in.cmp	034	16.00	52.5

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARMH <b>Ref Mon # 3</b> ARPG	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 14 3.1418484
<b>Longitude</b>	91 36 6.3881892
<b>Ellipsoid Height (M):</b>	168.443
<b>Geoid Height (M):</b>	-28.086

Location Description
From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go south on hwy-167 for 0.20 miles to the station on the left. 43.0 feet southeast of the center of the highway, 59.0 feet southwest of the center of a gravel drive and 13.7 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "670007A 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670008	<b>Date Monumented</b> 8/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Sharp	<b>Route</b> 230	<b>Job Number:</b> 050213
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,529.5909	
<b>Easting (M)</b>	441,380.5020	
<b>Elevation (M)*</b>	189.737	
<b>Northing (SFT)</b>	585,725.8328	
<b>Easting (SFT)</b>	1,448,095.8636	
<b>Elevation (SFT)*</b>	622.496	

  

<b>Convergence Angle</b>	0	16	0.7618880
<b>Scale Factor</b>	0.999955338		
<b>Elevation Adjust. Factor</b>	0.9999702249		
<b>Combined Adjust. Factor</b>	0.9999255643		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of a triple box culvert	261	16.15	53.0
<b>MK # 2</b>	Combination pole	86	18.30	60.0
<b>MK # 3</b>	24 inch culvert	240	2.44	8.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MONA, MOWS	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 29.9981364
<b>Longitude</b>	91 32 28.9202136
<b>Ellipsoid Height (M):</b>	161.983
<b>Geoid Height (M):</b>	-27.754

Location Description
To reach the station from the junction of highways 167 and 230 in Cave City go east on hwy-230 for 0.40 miles to "East Masonic rd." and the station on the left. 36.0 feet north of hwy-230, 27.0 feet east of Masonic road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "670008 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670008A	<b>Date Monumented</b> 8/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Sharp	<b>Route</b> 230	<b>Job Number:</b> 050213
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	178,496.6409		
<b>Easting (M)</b>	441,872.4120		
<b>Elevation (M)*</b>	186.218		
<b>Northing (SFT)</b>	585,617.7294		
<b>Easting (SFT)</b>	1,449,709.7384		
<b>Elevation (SFT)*</b>	610.950		

  

<b>Convergence Angle</b>	0	16	12.1791553
<b>Scale Factor</b>	0.999955304		
<b>Elevation Adjust. Factor</b>	0.9999707772		
<b>Combined Adjust. Factor</b>	0.9999260825		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	West end of a guard rail	266	23.77	78.0
<b>MK # 2</b>	Combination pole	230	26.52	87.0
<b>MK # 3</b>	Corner of bridge	64	5.18	17.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MONA, MOWS	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   56   28.8542616
<b>Longitude</b>	91   32   9.2995152
<b>Ellipsoid Height (M):</b>	158.459
<b>Geoid Height (M):</b>	-27.759

Location Description
<p>To reach the station from the junction of highways 167 and 230 in Cave City go east on hwy-230 for 0.70 miles to the station on the right behind a guard rail. 26.0 feet south of hwy-230 and 5.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "670008A 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670009	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050265,050275
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	220,518.4565	
<b>Easting (M)</b>	447,138.4454	
<b>Elevation (M)*</b>	128.974	
<b>Northing (SFT)</b>	723,484.3027	
<b>Easting (SFT)</b>	1,466,986.7163	
<b>Elevation (SFT)*</b>	423.142	

  

<b>Convergence Angle</b>	0	18	19.6432623
<b>Scale Factor</b>	1.000018245		
<b>Elevation Adjust. Factor</b>	0.9999797602		
<b>Combined Adjust. Factor</b>	0.9999980048		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Edge of rock fill	275	15.25	50.0	
MK # 2	S.E. corner of bridge	330	24.38	80.0	
MK # 3	CL of 63	10	29.87	98.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Elevations est. by digital level by CLS from NGS BM's R313 and O1, during Job 012157.  <div style="height: 100px;"></div>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670010	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266,050275
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,609.7165	
<b>Easting (M)</b>	449,855.0987	
<b>Elevation (M)*</b>	116.295	
<b>Northing (SFT)</b>	717,222.0449	
<b>Easting (SFT)</b>	1,475,899.6030	
<b>Elevation (SFT)*</b>	381.544	

  

<b>Convergence Angle</b>	0	19	22.7648991
<b>Scale Factor</b>	1.000014405		
<b>Elevation Adjust. Factor</b>	0.9999817499		
<b>Combined Adjust. Factor</b>	0.9999961546		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>This station is In the North west Corner of the intersection of Highway 63 and 175. The station is a standerd alum. cap stamped (670010 2011) And is on a 5/8" rebar that one foot long. And is 2 foot south of a Witness post. And as described</p> <p style="text-align: right;">Lat. 36.1809    Lon. 091.2642</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gravel Driveway	35	4.27	14.0
<b>MK # 2</b>	CL 175	120	17.37	57.0
<b>MK # 3</b>	Edge of sign	310	5.80	19.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<p>Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670010A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266,050275
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	218,227.9469	
<b>Easting (M)</b>	450,312.5471	
<b>Elevation (M)*</b>	108.089	
<b>Northing (SFT)</b>	715,969.5225	
<b>Easting (SFT)</b>	1,477,400.4149	
<b>Elevation (SFT)*</b>	354.622	

  

<b>Convergence Angle</b>	0	19	33.3830364
<b>Scale Factor</b>	1.000013649		
<b>Elevation Adjust. Factor</b>	0.9999830376		
<b>Combined Adjust. Factor</b>	0.9999966864		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Head Wall stamped 1916 (under railway)	175	9.75	32.0
MK # 2	closest rail	210	9.45	31.0
MK # 3	CL63	20	23.47	77.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.</td> </tr> </table>	Comments	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.
Comments			
Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.			

  

Location Description
Starting at the junction of highway 63 and 175 go east 0.35 miles to the station on the right. The station is a standard alum. cap (stamped 670010A 2011) And is on a 4 foot 5/8" rebar and is 12 foot north of a witness post and as described above. Lat. 36.1757 Lon. 091 2624

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670011	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	216,187.3038	
<b>Easting (M)</b>	455,405.6744	
<b>Elevation (M)*</b>	188.644	
<b>Northing (SFT)</b>	709,274.5126	
<b>Easting (SFT)</b>	1,494,110.1168	
<b>Elevation (SFT)*</b>	618.908	

  

<b>Convergence Angle</b>	0	21	31.8632930
<b>Scale Factor</b>	1.000009638		
<b>Elevation Adjust. Factor</b>	0.9999703965		
<b>Combined Adjust. Factor</b>	0.9999800343		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	concrete pipe under gravel drive	275	15.85	52.0
MK # 2	CL63	210	13.40	44.0
MK # 3	Old concrete sign base	35	7.32	24.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670011A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,902.0714	
<b>Easting (M)</b>	455,665.0634	
<b>Elevation (M)*</b>	181.379	
<b>Northing (SFT)</b>	708,338.7126	
<b>Easting (SFT)</b>	1,494,961.1288	
<b>Elevation (SFT)*</b>	595.076	

  

<b>Convergence Angle</b>	0	21	37.8693160
<b>Scale Factor</b>	1.000009090		
<b>Elevation Adjust. Factor</b>	0.9999715365		
<b>Combined Adjust. Factor</b>	0.9999806262		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Coregated Metal Pipe	330	21.00	68.9
<b>MK # 2</b>	Concrete Pipe	120	25.60	84.0
<b>MK # 3</b>	Steel Pipe Fence	230	5.00	16.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.			

  

Location Description	
Starting at the junction of highway 63 and 58 west go west 0.4 miles to the station on the left. The station is a standard alum. cap stamped (670011A 2011) and is on a 5/8" rebar that is 4 foot long and is 16 foot north of a witness post. And as dscribed above. Lat. 36.1640 Lon. 091.2250	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670012	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,552.6281	
<b>Easting (M)</b>	459,102.8799	
<b>Elevation (M)*</b>	119.974	
<b>Northing (SFT)</b>	707,192.2474	
<b>Easting (SFT)</b>	1,506,240.0318	
<b>Elevation (SFT)*</b>	393.614	

  

<b>Convergence Angle</b>	0	22	57.9676323
<b>Scale Factor</b>	1.000008384		
<b>Elevation Adjust. Factor</b>	0.9999811726		
<b>Combined Adjust. Factor</b>	0.9999895564		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CL gravel drive	275	14.94	49.0
<b>MK # 2</b>	Corrugated Metal Pipe	250	11.58	38.0
<b>MK # 3</b>	fence	0	7.45	24.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.
---	--

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	36 16 27.9139800
<b>Longitude</b>	91 20 31.9475904
<b>Ellipsoid Height (M):</b>	91.600
<b>Geoid Height (M):</b>	-28.371

Location Description
Starting at the junction of highway 63 and 58 east go west approx. 150 feet to the station on the right. The station is a standard alum. cap (stamped 670012 2011) and is on a 5/8" rebar that is 2 foot long. It is 36 foot off of the CL of 63 at an Az. of 180 and 24 foot south of a witness post. And as described above. Lat. 36.1628 Lon. 091.2033

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670012A	<b>Date Monumented</b> 9/13/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,587.9901	
<b>Easting (M)</b>	458,425.8684	
<b>Elevation (M)*</b>	106.396	
<b>Northing (SFT)</b>	707,308.2642	
<b>Easting (SFT)</b>	1,504,018.8699	
<b>Elevation (SFT)*</b>	349.069	

  

<b>Convergence Angle</b>	0	22	42.1891996
<b>Scale Factor</b>	1.000008460		
<b>Elevation Adjust. Factor</b>	0.9999833032		
<b>Combined Adjust. Factor</b>	0.9999917631		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Light pole	0	6.71	22.0
<b>MK # 2</b>	The western most driveway to the water wheel gas station	85	13.11	43.0
<b>MK # 3</b>	The eastern most driveway to the water wheel gas station	270	17.37	57.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	36 16 29.2070820
<b>Longitude</b>	91 20 59.0629992
<b>Ellipsoid Height (M):</b>	78.029
<b>Geoid Height (M):</b>	-28.372

Location Description
Starting at the junction of highway 63 and 58 east go west 0.45 miles to the station on the right. The station is a standard alum. cap (stamped 670012A 2011) and is on a 5/8" rebar that's 4 foot long and is 2 foot north of a witness post. And As described above. Lat. 36.1630 Lon. 091.2059

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670013	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,531.3864	
<b>Easting (M)</b>	462,335.7823	
<b>Elevation (M)*</b>	172.518	
<b>Northing (SFT)</b>	707,122.5569	
<b>Easting (SFT)</b>	1,516,846.6458	
<b>Elevation (SFT)*</b>	566.003	

  

<b>Convergence Angle</b>	0	24	13.3359557
<b>Scale Factor</b>	1.000008302		
<b>Elevation Adjust. Factor</b>	0.9999729270		
<b>Combined Adjust. Factor</b>	0.9999812288		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	Power Pole	15	7.62	25.0	
<b>MK # 2</b>	Extended CL of a gravel drive to a 1 1/2 story fra	205	9.45	31.0	
<b>MK # 3</b>	CL63	230	11.89	39.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670013A	<b>Date Monumented</b> 9/14/2011	<b>Monumented By</b> AHTD	<b>County</b> sharp	<b>Route</b> 63	<b>Job Number:</b> 012157,050266
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	215,175.7704	
<b>Easting (M)</b>	462,595.1524	
<b>Elevation (M)*</b>	179.560	
<b>Northing (SFT)</b>	705,955.8401	
<b>Easting (SFT)</b>	1,517,697.5958	
<b>Elevation (SFT)*</b>	589.108	

  

<b>Convergence Angle</b>	0	24	19.3242165
<b>Scale Factor</b>	1.000007627		
<b>Elevation Adjust. Factor</b>	0.9999718219		
<b>Combined Adjust. Factor</b>	0.9999794487		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>Starting at the junction of highway 63 and 90 in Ravenden go west 3.9 miles to the station on the left. The station is a standard alum. cap (stamped 670013A 2011) and is on a 4 foot 5/8" rebar. The station is 24 foot at an Az. of 45 and is 1 foot north of a witness post. And as described above. Lat. 361615 Lon. 091 1812</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	18" Corrugated Metal Pipe		320	6.71	22.0
MK # 2	Light Pole		165	30.18	99.0
MK # 3	Corner of Rock on house		265	18.90	62.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, &amp; RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670014	<b>Date Monumented</b> 7/7/2013	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 63	<b>Job Number:</b> 050275
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	218,152.6248		
<b>Easting (M)</b>	453,862.8558		
<b>Elevation (M)*</b>	216.311		
<b>Northing (SFT)</b>	715,722.4032		
<b>Easting (SFT)</b>	1,489,048.3861		
<b>Elevation (SFT)*</b>	709.679		

  

<b>Convergence Angle</b>	0	20	56.1702225
<b>Scale Factor</b>	1.000013460		
<b>Elevation Adjust. Factor</b>	0.9999660550		
<b>Combined Adjust. Factor</b>	0.9999795145		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	190	24.00	78.7
<b>MK # 2</b>	POWER POLE WITH LIGHT	164	28.30	92.8
<b>MK # 3</b>	TELEPHONE BOX	56	28.90	94.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.</td> </tr> </table>	Comments	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.
Comments			
Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.			

  

Location Description	
TO REACH FROM THE INTERSECTION OF HWY. 63 AND HWY. 63B SOUTH OF HARDY. GO SOUTH ON HWY. 63 FOR 4.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. SOUTH OF WITNESS POST, AND 129 FT. NORTH OF CL OF HWY. 63. THE STATION IS A 2 1/2 IN. CAP STAMPED "670014 2013" SET ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	670014A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670014A	<b>Date Monumented</b> 7/7/2013	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 63	<b>Job Number:</b> 050275
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	217,754.2111	
<b>Easting (M)</b>	454,190.9933	
<b>Elevation (M)*</b>	210.342	
<b>Northing (SFT)</b>	714,415.2743	
<b>Easting (SFT)</b>	1,490,124.9505	
<b>Elevation (SFT)*</b>	690.097	

  

<b>Convergence Angle</b>	0	21	3.7658076
<b>Scale Factor</b>	1.000012677		
<b>Elevation Adjust. Factor</b>	0.9999669916		
<b>Combined Adjust. Factor</b>	0.9999796682		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	65	6.20	20.3
MK # 2	SOUTHWEST CORNER OF 1 STORY FRAME	108	20.00	65.6
MK # 3	30 " OAK TREE	347	19.00	62.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670015	<b>Date Monumented</b> 12/4/2013	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 115	<b>Job Number:</b> FA6713
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD83 (1997)	
<b>Northing (M)</b>	186,383.6115	
<b>Easting (M)</b>	454,207.1041	
<b>Elevation (M)*</b>	96.262	
<b>Northing (SFT)</b>	611,493.5654	
<b>Easting (SFT)</b>	1,490,177.8074	
<b>Elevation (SFT)*</b>	315.819	

  

<b>Convergence Angle</b>	0	20	59.6737533
<b>Scale Factor</b>	0.999963712		
<b>Elevation Adjust. Factor</b>	0.9999848936		
<b>Combined Adjust. Factor</b>	0.9999486062		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	68	8.80	28.9
<b>MK # 2</b>	NORTHWEST BRIDGE CORNER	45	25.40	83.3
<b>MK # 3</b>	GUY POLE	261	27.50	90.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.</td> </tr> </table>	Comments	Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.
Comments			
Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.			

  

Location Description	
TO REACH FROM THE JCT. OF HWY 167 AND 115 IN CAVE CITY. GO EAST ON HWY 115 FOR 11.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. SOUTH OF A WITNESS POST, AND 34.8 FT. NORTH OF THE CENTERLINE OF HWY 115. THE STATION MARK IS A 2 1/2 IN ALUMINIUM CAP STAMPED "670015 2013" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 670015A	<b>Date Monumented</b> 12/4/2013	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 115	<b>Job Number:</b> FA6713
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD83 (1997)	
<b>Northing (M)</b>	186,090.1323	
<b>Easting (M)</b>	453,775.5811	
<b>Elevation (M)*</b>	118.473	
<b>Northing (SFT)</b>	610,530.7091	
<b>Easting (SFT)</b>	1,488,762.0523	
<b>Elevation (SFT)*</b>	388.690	

  

<b>Convergence Angle</b>	0	20	49.6048781
<b>Scale Factor</b>	0.999963372		
<b>Elevation Adjust. Factor</b>	0.9999814081		
<b>Combined Adjust. Factor</b>	0.9999447808		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP	45	54.80	179.8
MK # 2	POWER POLE	132	23.00	75.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	Elevation based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
680001 RESET	3/8/1995	AHTD	ST. FRANCIS	40	11884

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	78,667.4901	
<b>Easting (M)</b>	510,388.5610	
<b>Elevation (M)*</b>	87.483	
<b>Northing (SFT)</b>	258,094.9238	
<b>Easting (SFT)</b>	1,674,499.8039	
<b>Elevation (SFT)*</b>	287.017	

  

<b>Convergence Angle</b>	0	42	14.3743768
<b>Scale Factor</b>	0.999981355		
<b>Elevation Adjust. Factor</b>	0.9999862713		
<b>Combined Adjust. Factor</b>	0.9999676265		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH HOLE IN TOP OF BRIDGE END	33	17.70	58.1
MK # 2	PUNCH HOLE IN TOP OF BRIDGE END	97	9.40	30.8
MK # 3	PUNCH HOLE IN TOP OF WINGWALL	155	3.10	10.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="GIL 1986"/> <b>Ref Mon # 2</b> <input type="text" value="MORGAN 1954"/> <b>Ref Mon # 3</b> <input type="text" value="NONE"/>	(OLD PN = 92680001 RESET) ELEVATION BY 3-WIRE USING ELEVATION FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680001A (SET ON JOB R10015) IS 1143.962 FEET.

  

Location Description	
AT THE JCT. OF I-40 AND HWY. 1 IN FORREST CITY, THE STATION IS ON I-40 NEAR THE WEST END OF THE OVERPASS IN THE CENTER OF THE MEDIAN, 4.75 METERS NORTH OF THE EDGE OF THE EASTBOUND LANE, 13.70 METERS SOUTH OF THE EDGE OF THE WESTBOUND LANE AND 2.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92680001 1995 RESET" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.10 METERS BELOW THE SURFACE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680001A	<b>Date Monumented</b> 5/28/1992	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 40	<b>Job Number:</b> 11884, R10015
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 78,414.8001		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 509,272.8800		<b>Latitude</b> 35 2 2.9497416
<b>Elevation (M)*</b> 82.859		<b>Longitude</b> 90 48 8.7857568
<b>Northing (SFT)</b> 257,265.8900		<b>Ellipsoid Height (M):</b> 55.044
<b>Easting (SFT)</b> 1,670,839.4405		<b>Geoid Height (M):</b> -27.709
<b>Elevation (SFT)*</b> 271.847		

  

<b>Convergence Angle</b> 0 41 48.6918089	<b>Scale Factor</b> 0.999981712	<b>Location Description</b> FROM THE JCT. OF I-40 AND HWY. 1 IN FORREST CITY, GO WEST ON I-40 0.72 MILES TO THE STATION BY THE EAST END OF THE MO-PAC R/R OVERPASS. THE STATION IS 13 FEET SOUTH OF THE WESTBOUND LANE, 46 FEET NORTH OF THE EASTBOUND LANE AND 6 FEET SOUTH OF A WITNESS POST.
<b>Elevation Adjust. Factor</b> 0.9999869969	<b>Combined Adjust. Factor</b> 0.9999687091	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH HOLE IN TOP OF WINGWALL	190	15.11	49.6
<b>MK # 2</b>	PUNCH HOLE IN TOP OF WINGWALL	259	8.40	27.6
<b>MK # 3</b>	PUNCH HOLE IN END OF WINGWALL	337	2.35	7.7

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> GIL	OLD PN = 92680001A
<b>Ref Mon # 2</b> MORGAN	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680002	<b>Date Monumented</b> 5/28/1992	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 1	<b>Job Number:</b> 11884, R10015
--------------------------	-------------------------------------	------------------------------	------------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 83,647.0891		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 507,954.3720		<b>Latitude</b> 35 4 53.2435980
<b>Elevation (M)*</b> 73.377		<b>Longitude</b> 90 48 58.3189020
<b>Northing (SFT)</b> 274,432.1582		<b>Ellipsoid Height (M):</b> 45.555
<b>Easting (SFT)</b> 1,666,513.6355		<b>Geoid Height (M):</b> -27.745
<b>Elevation (SFT)*</b> 240.738		

  

<b>Convergence Angle</b> 0 41 19.8685149	<b>Scale Factor</b> 0.999974185	<b>Location Description</b> FROM THE POST OFFICE IN CALDWELL, GO NORTH ON HWY. 1 0.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 82 FEET EAST OF THE CENTERLINE OF HWY. 1 AND 2 FEET WEST OF A WITNESS POST.
<b>Elevation Adjust. Factor</b> 0.9999884849	<b>Combined Adjust. Factor</b> 0.9999626702	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	92680002A AZ. MK.
			Meters	Feet		
<b>MK # 1</b>	NBC IN TELEPHONE POLE	350	6.38	20.9	<b>Geodetic Azimuth</b>	21 35 12.94121
<b>MK # 2</b>	NBC IN POWER POLE	312	50.74	166.5	<b>Grid Azimuth</b>	20 53 53.11909
<b>MK # 3</b>	PUNCH POINT IN TOP OF FIRE HYDRANT	198	67.51	221.5		

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> GIL <b>Ref Mon # 2</b> MORGAN <b>Ref Mon # 3</b> NONE	<b>Comments</b> OLD PN = 92680002
---	--------------------------------------

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
680002A RESET	3/8/1995	AHTD	ST. FRANCIS	1	11884

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	84,486.5081	
<b>Easting (M)</b>	508,279.8300	
<b>Elevation (M)*</b>	80.613	
<b>Northing (SFT)</b>	277,186.1520	
<b>Easting (SFT)</b>	1,667,581.4089	
<b>Elevation (SFT)*</b>	264.478	

  

<b>Convergence Angle</b>	0	41	27.5765719
<b>Scale Factor</b>	0.999973049		
<b>Elevation Adjust. Factor</b>	0.9999873494		
<b>Combined Adjust. Factor</b>	0.9999603987		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE POST OFFICE IN CALDWELL, GO NORTH ON HWY. 1 FOR 1.18 MILES TO THE STATION ON THE RIGHT. THE STATION IS 22.90 METERS EAST OF THE CENTERLINE OF HWY. 1, 9.50 METERS SOUTH OF A DRIVEWAY AND 0.61 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92680002A 1995 RESET" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	170	4.90	16.1
MK # 2	NBC IN 6" LOCUST	85	27.00	88.6
MK # 3	30" METAL PIPE	315	7.70	25.3

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	GIL 1986	<p>S.A.F. FOR JOB NO. R10015 = 0.999965545 (OLD PN = 92680002A RESET) ELEVATION FOR WAS ARRIVED BY PRECISE METHODS FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680002A (SET ON JOB R10015) IS 900.326 FEET.</p>
Ref Mon # 2	MORGAN 1954	
Ref Mon # 3	NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680003A	<b>Date Monumented</b> 5/28/1992	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 1	<b>Job Number:</b> R10071, R10015
---------------------------	-------------------------------------	------------------------------	------------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	90,194.4301	
<b>Easting (M)</b>	508,787.2860	
<b>Elevation (M)*</b>	77.174	
<b>Northing (SFT)</b>	295,912.8928	
<b>Easting (SFT)</b>	1,669,246.2875	
<b>Elevation (SFT)*</b>	253.194	

  

<b>Convergence Angle</b>	0	41	40.8233251
<b>Scale Factor</b>	0.999965752		
<b>Elevation Adjust. Factor</b>	0.9999878891		
<b>Combined Adjust. Factor</b>	0.9999536415		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	43	18.82	61.8
MK # 2	NBD IN COMBINATION POLE	285	40.44	132.7
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	3 WIRE LEVEL FROM NGS PT H 175 OLD PN = 92680003A
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680004	<b>Date Monumented</b> 3/8/1995	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 1	<b>Job Number:</b> 11884,110702
--------------------------	------------------------------------	------------------------------	------------------------------	-------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	68,474.1737	0.0020	
<b>Easting (M)</b>	510,450.1926	0.0020	
<b>Elevation (M)*</b>	69.075		
<b>Northing (SFT)</b>	224,652.3515		
<b>Easting (SFT)</b>	1,674,702.0069		
<b>Elevation (SFT)*</b>	226.624		

  

<b>Convergence Angle</b>	0	42	12.9155492
<b>Scale Factor</b>	0.999997842		
<b>Elevation Adjust. Factor</b>	0.9999891600		
<b>Combined Adjust. Factor</b>	0.9999870020		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	56	39.9405696
<b>Longitude</b>	90	47	27.1547952
<b>Ellipsoid Height:</b>	41.247		
<b>Grid Northing (Meters)</b>	68,474.4501		
<b>Grid Easting (Meters)</b>	510,450.2450		

  

Location Description			
<p>FROM THE JCT. OF HWY. 1 AND HWY. 70 IN THE TOWN OF FORREST CITY, GO SOUTH ON HWY. 1 FOR 7.75 KM (4.82 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.80 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANES OF HWY. 1, 6.90 METERS EAST OF THE EASTERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARWY</p> <p>Ref Mon # 2    ZME1</p> <p>Ref Mon # 3    ARJB</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Updated br crew S5102 in 11/2018 during job 110702.by constraining elevation on ARWY</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680004A	<b>Date Monumented</b> 3/8/1995	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 1	<b>Job Number:</b> 11884,110702
---------------------------	------------------------------------	------------------------------	------------------------------	-------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	67,954.7138 0.0020
<b>Easting (M)</b>	510,451.1427 0.0020
<b>Elevation (M)*</b>	68.913
<b>Northing (SFT)</b>	222,948.0902
<b>Easting (SFT)</b>	1,674,705.1240
<b>Elevation (SFT)*</b>	226.092

  

<b>Convergence Angle</b>	0 42 12.7910656
<b>Scale Factor</b>	0.999998750
<b>Elevation Adjust. Factor</b>	0.9999891854
<b>Combined Adjust. Factor</b>	0.9999879354

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34 56	23.0846676	
<b>Longitude</b>	90 47	27.3688116	
<b>Ellipsoid Height:</b>	41.077		
<b>Grid Northing (Meters)</b>	67,954.9830		
<b>Grid Easting (Meters)</b>	510,451.1930		

  

Location Description			
FROM THE JCT. OF HWY. 1 AND HWY. 70 IN THE TOWN OF FORREST CITY, GO SOUTH ON HWY. 1 FOR 8.272 KM (5.14 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANES OF HWY. 1, 7.10 METERS EAST OF THE EASTERN MOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680004A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> AEWY <b>Ref Mon # 2</b> ZME1 <b>Ref Mon # 3</b> ARJB	<b>Comments</b>  Updated br crew S5102 in 11/2018 during job 110702.by constraining elevation on ARWY
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680005	<b>Date Monumented</b> 3/8/1995	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 70	<b>Job Number:</b> 11884
--------------------------	------------------------------------	------------------------------	------------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	74,115.4831	
<b>Easting (M)</b>	508,413.9910	
<b>Elevation (M)*</b>	67.626	
<b>Northing (SFT)</b>	243,160.5475	
<b>Easting (SFT)</b>	1,668,021.5688	
<b>Elevation (SFT)*</b>	221.870	

  

<b>Convergence Angle</b>	0	41	27.7848950
<b>Scale Factor</b>	0.999988364		
<b>Elevation Adjust. Factor</b>	0.9999893874		
<b>Combined Adjust. Factor</b>	0.9999777515		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWY. 70 AND HWY. 1 IN THE TOWN OF FORREST CITY, GO WEST ON HWY. 70 FOR 3.347 KM (2.08 MILES) TO THE STATION ON THE LEFT AND SOUTHWEST OF THE JCT. OF STEWART STREET AND HWY. 70. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF HWY. 70, 12.30 METERS WEST OF THE CENTER OF STEWART STREET AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680005 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	45	2.65	8.7
MK # 2	24" CONCRETE PIPE	35	6.70	22.0
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GIL 1986</p> <p><b>Ref Mon # 2</b>    MORGAN 1954</p> <p><b>Ref Mon # 3</b>    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680005A	<b>Date Monumented</b> 3/8/1995	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> N/A	<b>Job Number:</b> 11884
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	74,549.5441				
<b>Easting (M)</b>	508,423.2100				
<b>Elevation (M)*</b>	68.523				
<b>Northing (SFT)</b>	244,584.6293				
<b>Easting (SFT)</b>	1,668,051.8148				
<b>Elevation (SFT)*</b>	224.813				

  

<b>Convergence Angle</b>	0	41	28.1165664
<b>Scale Factor</b>	0.999987671		
<b>Elevation Adjust. Factor</b>	0.9999892466		
<b>Combined Adjust. Factor</b>	0.9999769178		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16" ELM TREE	160	18.20	59.7
<b>MK # 2</b>	30" METAL PIPE (DROP INLET)	155	9.40	30.8
<b>MK # 3</b>	30" METAL PIPE (DROP INLET)	205	12.70	41.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> GIL 1986	THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.
<b>Ref Mon # 2</b> MORGAN 1954	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680006	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 38	<b>Job Number:</b> R10010
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 69,311.9841		<b>Latitude</b> 34 56 54.6007956
<b>Easting (M)</b> 538,336.8770		<b>Longitude</b> 90 29 7.7905572
<b>Elevation (M)*</b> 62.124		<b>Ellipsoid Height (M):</b> 35.195
<b>Northing (SFT)</b> 227,401.0678		<b>Geoid Height (M):</b> -26.881
<b>Easting (SFT)</b> 1,766,193.5706		
<b>Elevation (SFT)*</b> 203.818		

  

<b>Convergence Angle</b>	0	52	52.6359207
<b>Scale Factor</b>	0.999997057		
<b>Elevation Adjust. Factor</b>	0.9999902508		
<b>Combined Adjust. Factor</b>	0.9999873078		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER POST	15	1.43	4.7
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	267	43.29	142.0
<b>MK # 3</b>	CORNER POST OF A CHAIN LINK FENCE	322	44.28	145.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
<b>Ref Mon # 2</b> BRINKLEYPORT	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680006A	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 38	<b>Job Number:</b> R10010
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	69,313.9361	
<b>Easting (M)</b>	537,804.8950	
<b>Elevation (M)*</b>	61.450	
<b>Northing (SFT)</b>	227,407.4720	
<b>Easting (SFT)</b>	1,764,448.2263	
<b>Elevation (SFT)*</b>	201.607	

  

<b>Convergence Angle</b>	0	52	40.4379747
<b>Scale Factor</b>	0.999997039		
<b>Elevation Adjust. Factor</b>	0.9999903566		
<b>Combined Adjust. Factor</b>	0.9999873956		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO WEST ON STATE HIGHWAY 38 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT NEAR THE TOP OF THE LEVEE OF A FISH POND. THE STATION IS 32.448 METERS EAST OF THE CENTER OF A GRAVEL DRIVE WAY, 15.179 METERS NORTH OF THE CENTER OF STATE HIGHWAY 38, 5.199 METER SOUTH OF THE CENTER OF A DIRT ROAD ON TOP OF A LEVEE AND 2.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	221	37.51	123.1
MK # 2	TELEPHONE JUNCTION BOX	263	38.91	127.7
MK # 3	POWER POLE	323	46.73	153.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    DAWSEY</p> <p>Ref Mon # 2    BRINKLEYPORT</p> <p>Ref Mon # 3    H 349</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3 WIRE FROM NGS POINT K 251</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680007	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 38	<b>Job Number:</b> R10010
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 67,063.1321		<b>Latitude</b> 34 55 39.1297980
<b>Easting (M)</b> 543,267.2520		<b>Longitude</b> 90 25 54.9155964
<b>Elevation (M)*</b> 61.522		<b>Ellipsoid Height (M):</b> 34.511
		<b>Geoid Height (M):</b> -26.927

  

<b>Northing (SFT)</b> 220,022.9592		<b>Location Description</b>
<b>Easting (SFT)</b> 1,782,369.3093		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO EAST ON STATE HIGHWAY 38 FOR 6.60 KM (4.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 1.87 METERS NORTH OF A WITNESS POST. THE THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 201.843		
<b>Convergence Angle</b> 0 54 44.8696922		
<b>Scale Factor</b> 1.000001149		
<b>Elevation Adjust. Factor</b> 0.9999903453		
<b>Combined Adjust. Factor</b> 0.9999914943		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS RISER	160	1.95	6.4
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	285	21.70	71.2
<b>MK # 3</b>	COMBINATION POLE = TBM 920	7	24.80	81.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
<b>Ref Mon # 2</b> BRINKLEYPOR	
<b>Ref Mon # 3</b> H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680007A	<b>Date Monumented</b> 4/28/1998	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 38	<b>Job Number:</b> R10010
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	66,918.2010	
<b>Easting (M)</b>	543,696.2010	
<b>Elevation (M)*</b>	60.927	
<b>Northing (SFT)</b>	219,547.4644	
<b>Easting (SFT)</b>	1,783,776.6194	
<b>Elevation (SFT)*</b>	199.891	

  

<b>Convergence Angle</b>	0	54	54.6500057
<b>Scale Factor</b>	1.000001420		
<b>Elevation Adjust. Factor</b>	0.9999904387		
<b>Combined Adjust. Factor</b>	0.9999918586		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	104	22.78	74.8
MK # 2	GAS METER	181	2.31	7.6
MK # 3	GUY POLE = TBM 921	319	45.96	150.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 2 BRINKLEYPORT	
Ref Mon # 3 H 349	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680008	<b>Date Monumented</b> 3/6/2000	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 1	<b>Job Number:</b> R10071
--------------------------	------------------------------------	------------------------------	------------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	89,601.9581				
<b>Easting (M)</b>	508,379.3030				
<b>Elevation (M)*</b>	78.863				
<b>Northing (SFT)</b>	293,969.0909				
<b>Easting (SFT)</b>	1,667,907.7633				
<b>Elevation (SFT)*</b>	258.736				

  

<b>Convergence Angle</b>	0	41	31.2809515
<b>Scale Factor</b>	0.999966467		
<b>Elevation Adjust. Factor</b>	0.9999876240		
<b>Combined Adjust. Factor</b>	0.9999540914		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST CORNER OF HEADWALL	252	9.60	31.5
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BRINKLEYPORT	3 WIRE LEVEL FROM NGS PT H 175
<b>Ref Mon # 2</b> NEWSPORT	
<b>Ref Mon # 3</b> MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680009	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 70	<b>Job Number:</b> 110388
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	86,893.9791	
<b>Easting (M)</b>	529,866.9690	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	285,084.6631	
<b>Easting (SFT)</b>	1,738,405.2141	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	44.2473926
<b>Scale Factor</b>	0.999970242		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 3.669 KM (2.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 30.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70, 5.25 METERS EAST OF THE CENTER OF ST. FRANCIS COUNTY ROAD 447, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	164	12.60	41.3
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    DAWSEY</p> <p>Ref Mon # 3    680006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680009A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 70	<b>Job Number:</b> 110388
---------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,092.0291	
<b>Easting (M)</b>	530,410.2720	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	285,734.4321	
<b>Easting (SFT)</b>	1,740,187.7007	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	49	56.7964604
<b>Scale Factor</b>	0.999969995		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A CONCRETE HEADWALL	238	11.15	36.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 680006	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 6 35.3490372
<b>Longitude</b>	90 34 9.9725880
<b>Ellipsoid Height (M):</b>	34.056
<b>Geoid Height (M):</b>	-26.962

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 4.216 KM (2.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.</p>

<b>AZ Mark Station</b>	680009
<b>Geodetic Azimuth</b>	250 48 15
<b>Grid Azimuth</b>	249 58 18

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680010	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 50	<b>Job Number:</b> 110390
--------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	76,490.7261	
<b>Easting (M)</b>	525,078.9310	
<b>Elevation (M)*</b>	60.538	
<b>Northing (SFT)</b>	250,953.3239	
<b>Easting (SFT)</b>	1,722,696.4595	
<b>Elevation (SFT)*</b>	198.615	

  

<b>Convergence Angle</b>	0	47	50.9091581
<b>Scale Factor</b>	0.999984960		
<b>Elevation Adjust. Factor</b>	0.9999904997		
<b>Combined Adjust. Factor</b>	0.9999754598		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 75, 38, AND 50 LOCATED ABOUT 14.484 KM (9.00 MI) EAST OF FORREST CITY, GO WEST ON HIGHWAY 50 FOR 0.402 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS SOUTH OF THE CENTER OF HIGHWAY 50 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 362.160 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION FROM U.S. ARMY C.O.E. BENCH MARK N 12 87 7V BY 3 WIRE LEVEL RUN BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER BURNT CANE BAPTIST CHUR	145	24.60	80.7
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BRINKLEYPORT</p> <p>Ref Mon # 2: DAWSEY</p> <p>Ref Mon # 3: 680006</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680010A	<b>Date Monumented</b> 12/12/2000	<b>Monumented By</b> AHTD	<b>County</b> ST. FRANCIS	<b>Route</b> 50	<b>Job Number:</b> 110390
---------------------------	--------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	76,530.2931	
<b>Easting (M)</b>	524,718.9440	
<b>Elevation (M)*</b>	61.733	
<b>Northing (SFT)</b>	251,083.1366	
<b>Easting (SFT)</b>	1,721,515.4021	
<b>Elevation (SFT)*</b>	202.536	

  

<b>Convergence Angle</b>	0	47	42.6601221
<b>Scale Factor</b>	0.999984891		
<b>Elevation Adjust. Factor</b>	0.9999903122		
<b>Combined Adjust. Factor</b>	0.9999752033		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	U.S. ARMY C.O.E. BENCH MARK N 1287 7V	122	29.45	96.6
<b>MK # 2</b>	.26 DIAMETER PINE TREE	176	31.40	103.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="BRINKLEYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="DAWSEY"/>	
<b>Ref Mon # 3</b> <input type="text" value="680006"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 0 55.2761748
<b>Longitude</b>	90 38 0.4873488
<b>Ellipsoid Height (M):</b>	34.888
<b>Geoid Height (M):</b>	-26.845

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 75, 38, AND 50 LOCATED ABOUT 14.484 KM (9.00 MI) EAST OF FORREST CITY, GO WEST ON HIGHWAY 50 FOR 0.756 KM (0.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.05 METERS NORTH OF THE CENTER OF HIGHWAY 50 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 362.160 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION FROM U.S. ARMY C.O.E. BENCH MARK N 12 87 7V BY 3 WIRE LEVEL RUN BY CREW S5102.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680011	<b>Date Monumented</b> 6/29/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 261	<b>Job Number:</b> 110543
--------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	72,189.9140	
<b>Easting (M)</b>	500,261.1660	
<b>Elevation (M)*</b>	64.257	
<b>Northing (SFT)</b>	236,843.0762	
<b>Easting (SFT)</b>	1,641,273.5088	
<b>Elevation (SFT)*</b>	210.816	

  

<b>Convergence Angle</b>	0	38	20.2247471
<b>Scale Factor</b>	0.999991341		
<b>Elevation Adjust. Factor</b>	0.9999899161		
<b>Combined Adjust. Factor</b>	0.9999812572		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North west corner of a church sign	86	0.60	2.0
<b>MK # 2</b>	Combination pole	268	6.09	20.0
<b>MK # 3</b>	South end of a 18 inch culvert	309	13.56	44.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> TN45	Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680011A	<b>Date Monumented</b> 6/29/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 261	<b>Job Number:</b> 110543
---------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	72,536.0241		
<b>Easting (M)</b>	500,057.7050		
<b>Elevation (M)*</b>	64.915		
<b>Northing (SFT)</b>	237,978.6057		
<b>Easting (SFT)</b>	1,640,605.9872		
<b>Elevation (SFT)*</b>	212.974		

  

<b>Convergence Angle</b>	0	38	15.6456370
<b>Scale Factor</b>	0.999990768		
<b>Elevation Adjust. Factor</b>	0.9999898129		
<b>Combined Adjust. Factor</b>	0.9999805810		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Light pole with arm	347	7.62	25.0
<b>MK # 2</b>	Concrete right of way marker	251	9.14	30.0
<b>MK # 3</b>	Northeast corner of a cafe	193	35.97	118.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> TN45	Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680012	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 38	<b>Job Number:</b> 110543
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	80,303.7181				
<b>Easting (M)</b>	519,542.4800				
<b>Elevation (M)*</b>	61.524				
<b>Northing (SFT)</b>	263,463.1151				
<b>Easting (SFT)</b>	1,704,532.2865				
<b>Elevation (SFT)*</b>	201.849				

  

<b>Convergence Angle</b>	0	45	45.0122091
<b>Scale Factor</b>	0.999979116		
<b>Elevation Adjust. Factor</b>	0.9999903450		
<b>Combined Adjust. Factor</b>	0.9999694612		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	237	20.73	68.0
<b>MK # 2</b>	Power pole	307	24.38	80.0
<b>MK # 3</b>	36 inch pine tree	0	42.06	138.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> TN45	Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543

  

Location Description	
To reach the station from the junction of highways 38 and 70 go south on hwy-38 for 0.12 miles to the station on the left at a field road east. 80 feet south of the field entrance, 28.0 feet east of the center of hwy-38 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680012 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    2    59.9966304
<b>Longitude</b>	90    41    22.6665708
<b>Ellipsoid Height (M):</b>	34.633
<b>Geoid Height (M):</b>	-26.867

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680012A	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 38	<b>Job Number:</b> 110543
---------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	79,621.3681	
<b>Easting (M)</b>	519,541.3410	
<b>Elevation (M)*</b>	61.405	
<b>Northing (SFT)</b>	261,224.4385	
<b>Easting (SFT)</b>	1,704,528.5496	
<b>Elevation (SFT)*</b>	201.459	

  

<b>Convergence Angle</b>	0	45	44.7775685
<b>Scale Factor</b>	0.999980114		
<b>Elevation Adjust. Factor</b>	0.9999903637		
<b>Combined Adjust. Factor</b>	0.9999704779		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch CMP	209	5.79	19.0
MK # 2	East end of 18 inch steel culvert	349	14.02	46.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARPG Ref Mon # 2    ARLR Ref Mon # 3    TN45	<b>Comments</b>  Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543
--	---

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    2    37.8566772
<b>Longitude</b>	90    41    23.0698032
<b>Ellipsoid Height (M):</b>	34.524
<b>Geoid Height (M):</b>	-26.860

Location Description
To reach the station from the junction of highways 38 and 70 go south on hwy-38 for 1.10 miles to the station on the left at a field road east. 27 feet north of the field entrance, 28.0 feet east of the center of hwy-38 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680012A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

<b>AZ Mark Station</b>	680012
<b>Geodetic Azimuth</b>	0 51 29
<b>Grid Azimuth</b>	0 05 44

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680013	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 70	<b>Job Number:</b> 110543
--------------------------	-------------------------------------	------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,384.0231	
<b>Easting (M)</b>	537,678.4640	
<b>Elevation (M)*</b>	62.218	
<b>Northing (SFT)</b>	293,254.0825	
<b>Easting (SFT)</b>	1,764,033.4273	
<b>Elevation (SFT)*</b>	204.128	

  

<b>Convergence Angle</b>	0	52	44.6002542
<b>Scale Factor</b>	0.999967231		
<b>Elevation Adjust. Factor</b>	0.9999902360		
<b>Combined Adjust. Factor</b>	0.9999574673		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	center of drop inlet	180	2.59	8.5
<b>MK # 2</b>	West end of a 18 inch cmp	251	13.56	44.5
<b>MK # 3</b>	Southwest end of post office	0	19.51	64.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> TN45	Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.

  

Location Description	
To reach the station from the junction of highways 70 and 149 in Shell Lake go west on hwy-70 for 290.0 feet to the station on the right in front of the post office. 55.5 feet north of the center of hwy-70 and 4.00 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "680013 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680013A	<b>Date Monumented</b> 6/16/2010	<b>Monumented By</b> AHTD	<b>County</b> St. Francis	<b>Route</b> 149	<b>Job Number:</b> 110543
---------------------------	-------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	88,793.9141	
<b>Easting (M)</b>	537,992.1200	
<b>Elevation (M)*</b>	61.743	
<b>Northing (SFT)</b>	291,318.0332	
<b>Easting (SFT)</b>	1,765,062.4804	
<b>Elevation (SFT)*</b>	202.567	

  

<b>Convergence Angle</b>	0	52	51.6000951
<b>Scale Factor</b>	0.999967972		
<b>Elevation Adjust. Factor</b>	0.9999903107		
<b>Combined Adjust. Factor</b>	0.9999582830		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	105	16.15	53.0
MK # 2	North end of 18 inch culvert	88	7.16	23.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    ARLR Ref Mon # 3    TN45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.</td> </tr> </table>	Comments	Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.
Comments			
Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    7    26.8906620
<b>Longitude</b>	90    29    9.5706348
<b>Ellipsoid Height (M):</b>	34.755
<b>Geoid Height (M):</b>	-27.003

  

Location Description
To reach the station from the junction of highways 70 and 149 in Shell Lake go south on hwy-149 for 0.40 miles to the station on the left. 32.5 feet east of the center of hwy-149, 24.0 feet north of the center of a field entrance and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680013A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680014	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> ST. Francis	<b>Route</b> 261	<b>Job Number:</b> 110573
--------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,997.5662	
<b>Easting (M)</b>	502,730.3807	
<b>Elevation (M)*</b>	66.183	
<b>Northing (SFT)</b>	269,020.3484	
<b>Easting (SFT)</b>	1,649,374.5907	
<b>Elevation (SFT)*</b>	217.135	

  

<b>Convergence Angle</b>	0	39	19.4431688
<b>Scale Factor</b>	0.999976392		
<b>Elevation Adjust. Factor</b>	0.9999896138		
<b>Combined Adjust. Factor</b>	0.9999660061		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	east of a field entrance		270		3.05	10.0
MK # 2	south of the centerline of highway 261		0		8.23	27.0
MK # 3	south east of a power pole with guide wire		310		32.93	108.0

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219</td> </tr> </table>	Comments	3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219
Comments			
3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680014A	<b>Date Monumented</b> 2/9/2012	<b>Monumented By</b> AHTD	<b>County</b> ST. Francis	<b>Route</b> 261	<b>Job Number:</b> 110573
---------------------------	------------------------------------	------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,995.7890	
<b>Easting (M)</b>	502,308.4204	
<b>Elevation (M)*</b>	64.942	
<b>Northing (SFT)</b>	269,014.5177	
<b>Easting (SFT)</b>	1,647,990.2093	
<b>Elevation (SFT)*</b>	213.064	

  

<b>Convergence Angle</b>	0	39	9.7522398
<b>Scale Factor</b>	0.999976388		
<b>Elevation Adjust. Factor</b>	0.9999898086		
<b>Combined Adjust. Factor</b>	0.9999661968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	north of the centerline of highway 261	180	7.32	24.0
<b>MK # 2</b>	east of th centerline of county road 251	270	17.98	59.0
<b>MK # 3</b>	west of gravel driveway	90	22.25	73.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219</td> </tr> </table>	Comments	3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219
Comments			
3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680015	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 75	<b>Job Number:</b> 110717
--------------------------	-------------------------------------	---------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 83,465.2698	<b>0.0040</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 525,914.4894	<b>0.0040</b>	<b>Latitude</b> 35 4 39.7545528
<b>Elevation (M)*</b>		<b>Longitude</b> 90 37 9.4998972
<b>Northing (SFT)</b> 273,835.6393		<b>Ellipsoid Height (M):</b> 34.033 0.0160
<b>Easting (SFT)</b> 1,725,437.7873		<b>Geoid Height (M):</b> -27.025 0.0160
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	48	12.3296757
<b>Scale Factor</b>	0.999974757		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 75, GO SOUTH ON HIGHWAY 75 APPROXIMATELY 1.3 MILES AND THE MONUMENT IS APPROXIMATELY 33' LEFT OF THE CENTERLINE OF THE HIGHWAY

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARJB	
Ref Mon # 2 ARLR, ARPB	
Ref Mon # 3 ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680015A	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 75	<b>Job Number:</b> 110717
---------------------------	-------------------------------------	---------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	83,048.8982	0.0030			
<b>Easting (M)</b>	525,918.2734	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	272,469.5935				
<b>Easting (SFT)</b>	1,725,450.2020				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	48	12.2824812
<b>Scale Factor</b>	0.999975334		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	680015
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						
					Grid Azimuth	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARJB	
Ref Mon # 2    ARLR, ARPB	
Ref Mon # 3    ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680016	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 50	<b>Job Number:</b> 110717
--------------------------	-------------------------------------	---------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	77,451.3803	0.0030			
<b>Easting (M)</b>	535,904.3531	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	254,105.0702				
<b>Easting (SFT)</b>	1,758,212.8651				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	51	59.6797771
<b>Scale Factor</b>	0.999983722		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					680016A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	
Ref Mon # 2: ARLR, ARPB	
Ref Mon # 3: ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680016A	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 50	<b>Job Number:</b> 110717
---------------------------	-------------------------------------	---------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	77,437.2830	0.0030			
<b>Easting (M)</b>	536,307.5422	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	254,058.8193				
<b>Easting (SFT)</b>	1,759,535.6614				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	52	8.9286432
<b>Scale Factor</b>	0.999983753		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	680016
			Meters	Feet		
MK # 1					<b>Geodetic Azimuth</b> <b>Grid Azimuth</b>	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARLR, ARPB <b>Ref Mon # 3</b> ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680017	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 357	<b>Job Number:</b> 110717
--------------------------	-------------------------------------	---------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	85,096.8851	0.0030	
<b>Easting (M)</b>	541,707.6882	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	279,188.6972		
<b>Easting (SFT)</b>	1,777,252.6404		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	54	15.6433474
<b>Scale Factor</b>	0.999972854		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					680017A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	
Ref Mon # 2: ARLR, ARPB	
Ref Mon # 3: ARWY, MSGN	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 680017A	<b>Date Monumented</b> 4/13/2020	<b>Monumented By</b> RASBURY	<b>County</b> ST. FRANCIS	<b>Route</b> 357	<b>Job Number:</b> 110717
---------------------------	-------------------------------------	---------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	85,500.1769	0.0030			
<b>Easting (M)</b>	541,704.0736	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	280,511.8304				
<b>Easting (SFT)</b>	1,777,240.7815				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	54	15.7065507
<b>Scale Factor</b>	0.999972313		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARJB	
Ref Mon # 2    ARLR, ARPB	
Ref Mon # 3    ARWY, MSGN	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   5   38.1446124
<b>Longitude</b>	90   26   45.0327732
<b>Ellipsoid Height (M):</b>	34.343   0.0170
<b>Geoid Height (M):</b>	-27.121   0.0170

Location Description
<p>TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 357, GO SOUTH ON HIGHWAY 357 APPROXIMATELY 2.9 MILES AND THE MONUMENT IS APPROXIMATELY 36' RIGHT OF THE CENTERLINE OF THE HIGHWAY</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690001	<b>Date Monumented</b> 10/23/1995	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,850.2639	
<b>Easting (M)</b>	402,369.0980	
<b>Elevation (M)*</b>	371.220	
<b>Northing (SFT)</b>	531,003.7408	
<b>Easting (SFT)</b>	1,320,105.9490	
<b>Elevation (SFT)*</b>	1,217.911	

  

<b>Convergence Angle</b>	0	0	54.9024271
<b>Scale Factor</b>	0.999942500		
<b>Elevation Adjust. Factor</b>	0.9999417469		
<b>Combined Adjust. Factor</b>	0.9998842502		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT. WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.00 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE AHEAD ON HWY. 5 FOR 6.68 KM (4.15 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.7 METERS EAST-SOUTHEAST OF A FIELD ENTRANCE, 11.8 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5, 0.61 METERS SOUTH-SOUTHWEST OF A WITNESS POST AND 0.78 METERS SOUTH-SOUTHWEST OF A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MOST EASTERLY WOODEN GATE POST		300	20.35	66.8
MK # 2	WOODEN FENCE POST		320	2.40	7.9
MK # 3	WOODEN FENCE POST		96	2.35	7.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARLR, ARBT, ARHR</p> <p><b>Ref Mon # 2</b>    690006, N 42</p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690001A	<b>Date Monumented</b> 10/23/1995	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	161,655.9169	
<b>Easting (M)</b>	402,701.3290	
<b>Elevation (M)*</b>	379.542	
<b>Northing (SFT)</b>	530,366.1207	
<b>Easting (SFT)</b>	1,321,195.9436	
<b>Elevation (SFT)*</b>	1,245.214	

  

<b>Convergence Angle</b>	0	1	2.6003158
<b>Scale Factor</b>	0.999942390		
<b>Elevation Adjust. Factor</b>	0.9999404410		
<b>Combined Adjust. Factor</b>	0.9998828345		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	16" (0.40 M) CEDAR TREE	104	24.00	78.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBA, ARLR, ARHR	
<b>Ref Mon # 2</b> 690006, N 42	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 47 25.6147872
<b>Longitude</b>	91 58 12.4206744
<b>Ellipsoid Height (M):</b>	352.114
<b>Geoid Height (M):</b>	-27.428

Location Description
<p>FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE SOUTHERLY ON HWY. 5 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.5 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5 AND 0.83 METERS SOUTH-SOUTHWEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690002	<b>Date Monumented</b> 10/23/1995	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,693.3999	
<b>Easting (M)</b>	397,238.3500	
<b>Elevation (M)*</b>	206.266	
<b>Northing (SFT)</b>	537,050.7628	
<b>Easting (SFT)</b>	1,303,272.8200	
<b>Elevation (SFT)*</b>	676.724	

  

<b>Convergence Angle</b>	0	1	4.0128412
<b>Scale Factor</b>	0.999943591		
<b>Elevation Adjust. Factor</b>	0.9999676312		
<b>Combined Adjust. Factor</b>	0.9999112240		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK" AND THE STATION ON THE LEFT NEAR THE NORTHEAST CORNER OF THE BRIDGE. THE STATION IS 7.30 METERS EAST-NORTHEAST OF THE CENTER OF HWY. 5, 2.70 METERS NORTH OF THE NORTHEAST CORNER OF THE BRIDGE AND 0.86 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	GUARD RAIL POST	335	2.40	7.9		
MK # 2	GUARD RAIL POST	241	0.50	1.6		
MK # 3	GUARD RAIL POST	174	12.45	40.8		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBA, ARLR, ARHR</p> <p>Ref Mon # 2    690006, N 42</p> <p>Ref Mon # 3    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690004	<b>Date Monumented</b> 10/23/1995	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
--------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	168,850.7390	
<b>Easting (M)</b>	392,610.3350	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	553,971.1329	
<b>Easting (SFT)</b>	1,288,089.0741	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	51.3858266
<b>Scale Factor</b>	0.999947088		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS WEST-NORTHWEST OF THE PAVED ENTRANCE TO THE "STONE COUNTY HEALTH CLINIC", 3.20 METERS SOUTH-SOUTHWEST OF THE BACK OF A CONCRETE CURB AND 5.90 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	303	8.90	29.2
MK # 2	COMBINATION POLE	99	16.30	53.5
MK # 3	WEST CORNER OF A 1.7M X 1.7M X 1.0M W	115	5.15	16.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARBA, ARLR, ARHR</p> <p><b>Ref Mon # 2</b>    690006, N 42</p> <p><b>Ref Mon # 3</b>    </p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690004A	<b>Date Monumented</b> 10/23/1995	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
---------------------------	--------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,056.9539	
<b>Easting (M)</b>	392,235.1550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	554,647.6896	
<b>Easting (SFT)</b>	1,286,858.1710	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	3	0.0914114
<b>Scale Factor</b>	0.999947241		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	270	3.45	11.3
<b>MK # 2</b>	SOUTHEAST CORNER OF BRICK SIGN BASE	325	28.40	93.2
<b>MK # 3</b>	22" (0.55 METER) BLACK WALNUT TREE	10	26.80	87.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBA, ARLR, ARHR	
<b>Ref Mon # 2</b> 690006, N 42	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 51 25.6607676
<b>Longitude</b>	92 5 9.4890552
<b>Ellipsoid Height (M):</b>	205.753
<b>Geoid Height (M):</b>	-27.563

Location Description
<p>FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.25 KM (1.40 MILES) TO THE STATION ON THE LEFT JUST SOUTH OF THE SOUTH EDGE OF THE FOOTBALL FIELD. THE STATION IS 12.0 METERS EAST-SOUTHEAST OF A GRAVEL DRIVEWAY, 8.60 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690004A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690005	<b>Date Monumented</b> 11/9/2004	<b>Monumented By</b> AHTD	<b>County</b> STONE	<b>Route</b> 263	<b>Job Number:</b> 050164
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	177,383.8940	
<b>Easting (M)</b>	367,993.4790	
<b>Elevation (M)*</b>	276.611	
<b>Northing (SFT)</b>	581,966.9922	
<b>Easting (SFT)</b>	1,207,325.2724	
<b>Elevation (SFT)*</b>	907.515	

  

<b>Convergence Angle</b>	0	12	23.0255377
<b>Scale Factor</b>	0.999954269		
<b>Elevation Adjust. Factor</b>	0.9999565926		
<b>Combined Adjust. Factor</b>	0.9999108636		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole #110	341	27.80	91.2
MK # 2	NW corner of rock post	152	28.55	93.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="Butler"/> <b>Ref Mon # 2</b> <input type="text" value="Tri County"/> <b>Ref Mon # 3</b> <input type="text" value="640009"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 55 54.0810732
<b>Longitude</b>	92 21 16.8974928
<b>Ellipsoid Height (M):</b>	248.774
<b>Geoid Height (M):</b>	-27.836

Location Description
<p>To reach the station from the junction of State highways 66 and 263 in Timbo, Ar. Go north on highway 263 for 5.90 miles to the station on the right near a gravel drive and gate. 9.50 meters Northeast of the center of hwy-263 and 2.20 meters Southwest of a witness post. The station mark is a standard 64mm cap stamped "690005 2004" set on top of an iron rod 1.22 meters long and is just below the grounds surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690005A	<b>Date Monumented</b> 11/9/2004	<b>Monumented By</b> AHTD	<b>County</b> STONE	<b>Route</b> 263	<b>Job Number:</b> 050164
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	176,998.3989	
<b>Easting (M)</b>	368,158.9900	
<b>Elevation (M)*</b>	286.924	
<b>Northing (SFT)</b>	580,702.2471	
<b>Easting (SFT)</b>	1,207,868.2864	
<b>Elevation (SFT)*</b>	941.350	

  

<b>Convergence Angle</b>	0	12	19.1511934
<b>Scale Factor</b>	0.999953905		
<b>Elevation Adjust. Factor</b>	0.9999549743		
<b>Combined Adjust. Factor</b>	0.9999088814		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Wooden gate post	136	1.80	5.9
<b>MK # 2</b>	Four inch Cedar tree	15	3.80	12.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="Butler"/>	
<b>Ref Mon # 2</b> <input type="text" value="Tri County"/>	
<b>Ref Mon # 3</b> <input type="text" value="640009"/>	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 55 41.5925652
<b>Longitude</b>	92 21 10.2393900
<b>Ellipsoid Height (M):</b>	259.095
<b>Geoid Height (M):</b>	-27.829

  

Location Description
<p>To reach the station from the junction of State highways 66 and 263 in Timbo, Ar. Go north on highway 263 for 5.70 miles to the station on the right. 8.85 meters East of the center of hwy-263, 3.40 meters North of the center of a farm entrance and 1.30 meters West of a witness post. The station mark is a standard 64mm cap stamped "690005A 2004" set on top of an iron 1.22 meters long and is just below the grounds' surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690006	<b>Date Monumented</b> 12/5/2008	<b>Monumented By</b> AHTD	<b>County</b> STONE	<b>Route</b> 87	<b>Job Number:</b> 050164
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,293.5589	
<b>Easting (M)</b>	389,033.0110	
<b>Elevation (M)*</b>	228.093	
<b>Northing (SFT)</b>	558,704.7845	
<b>Easting (SFT)</b>	1,276,352.4703	
<b>Elevation (SFT)*</b>	748.335	

  

<b>Convergence Angle</b>	0	4	14.3946087
<b>Scale Factor</b>	0.999948182		
<b>Elevation Adjust. Factor</b>	0.9999642061		
<b>Combined Adjust. Factor</b>	0.9999123899		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Guy Pole	14	12.04	39.5
<b>MK # 2</b>	Guy Pole	234	15.54	51.0
<b>MK # 3</b>	Combination pole with guy wire	312	17.92	58.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 52 5.6752608
<b>Longitude</b>	92 7 17.1799104
<b>Ellipsoid Height (M):</b>	200.500
<b>Geoid Height (M):</b>	-27.593

Location Description
<p>The station mark is located 54.0 feet northwest of the intersection of highways 66 and 87 in the center of Mountain View. 34.8 feet northwest of the center of hwy-66 and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690006 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690007	<b>Date Monumented</b> 10/5/2009	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,324.5789	
<b>Easting (M)</b>	400,374.1660	
<b>Elevation (M)*</b>	380.182	
<b>Northing (SFT)</b>	535,840.7226	
<b>Easting (SFT)</b>	1,313,560.9096	
<b>Elevation (SFT)*</b>	1,247.314	

  

<b>Convergence Angle</b>	0	0	8.6725094
<b>Scale Factor</b>	0.999943366		
<b>Elevation Adjust. Factor</b>	0.9999403406		
<b>Combined Adjust. Factor</b>	0.9998837100		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	53	8.17	26.8
<b>MK # 2</b>	Guy wire	25	8.65	28.4
<b>MK # 3</b>	Fire hydrant	328	33.22	109.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBA, ARLR, ARHR	
<b>Ref Mon # 2</b> 690006, N 42	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 48 19.7715168
<b>Longitude</b>	91 59 45.0961980
<b>Ellipsoid Height (M):</b>	352.737
<b>Geoid Height (M):</b>	-27.445

Location Description
<p>To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.40 miles to the Iron Mt. Fire station and the station on the left. 21.0 feet north of the center of hwy-5, 105 feet southwest of the southeast corner of the fire station, 40.50 feet east of the driveway to the station and 4.20 feet southwest of a witness post. The station mark is a 2 1/2 in. cap stamped "690007 2009" set on top of a 5/8 inch by 1.80 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690007A	<b>Date Monumented</b> 10/5/2009	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	163,057.3660	
<b>Easting (M)</b>	400,873.5260	
<b>Elevation (M)*</b>	389.594	
<b>Northing (SFT)</b>	534,964.0416	
<b>Easting (SFT)</b>	1,315,199.2266	
<b>Elevation (SFT)*</b>	1,278.193	

  

<b>Convergence Angle</b>	0	0	20.2461877
<b>Scale Factor</b>	0.999943205		
<b>Elevation Adjust. Factor</b>	0.9999388637		
<b>Combined Adjust. Factor</b>	0.9998820722		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Princess tree	148	13.11	43.0
<b>MK # 2</b>	telephone box	215	30.02	98.5
<b>MK # 3</b>	Combination pole	180	43.58	143.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBA, ARLR, ARHR	
<b>Ref Mon # 2</b> 690006, N 42	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 48 11.1000384
<b>Longitude</b>	91 59 25.2067056
<b>Ellipsoid Height (M):</b>	362.152
<b>Geoid Height (M):</b>	-27.442

Location Description
<p>To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.70 miles to the top of a hill and the station on the right. 16.50 feet southwest of the center of hwy-5, 133 feet northwest of the northwest corner of a brick house, 123 feet northwest of the center of a driveway and 20.00 feet northeast of a witness post. The station mark is a 2 1/2 in. cap stamped "690007A 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690008	<b>Date Monumented</b> 10/5/2009	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 5	<b>Job Number:</b> R50116,R50089
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	164,140.1370	
<b>Easting (M)</b>	396,986.2410	
<b>Elevation (M)*</b>	202.490	
<b>Northing (SFT)</b>	538,516.4328	
<b>Easting (SFT)</b>	1,302,445.6923	
<b>Elevation (SFT)*</b>	664.336	

  

<b>Convergence Angle</b>	0	1	9.8600337
<b>Scale Factor</b>	0.999943868		
<b>Elevation Adjust. Factor</b>	0.9999682237		
<b>Combined Adjust. Factor</b>	0.9999120935		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Barbed wire fence	53	3.75	12.3
<b>MK # 2</b>	Wooden brace post	353	1.40	4.6
<b>MK # 3</b>	Wooden brace post	126	7.92	26.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT, ARLR	
<b>Ref Mon # 2</b> 690006, ARHR, N 42	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    48    46.2178512
<b>Longitude</b>	92    2    0.0552300
<b>Ellipsoid Height (M):</b>	175.025
<b>Geoid Height (M):</b>	-27.465

Location Description
<p>To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 4.70 miles to Station on left on top of the bank at its crest. 55.4 feet North-East of centerline of highway 5. 286 feet North-West of gated field entrance. 12.1 feet South-West of a witness post. The station mark is 2 1/2 inch aluminum cap set on top of 5/8 inch by 2 feet rebar stamped "690008 2009"</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690009	<b>Date Monumented</b> 9/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> Culp	<b>Job Number:</b> FA0312
--------------------------	-------------------------------------	------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,323.8230	
<b>Easting (M)</b>	383,104.0540	
<b>Elevation (M)*</b>	155.635	
<b>Northing (SFT)</b>	644,105.7426	
<b>Easting (SFT)</b>	1,256,900.5505	
<b>Elevation (SFT)*</b>	510.612	

  

<b>Convergence Angle</b>	0	6	33.0754295
<b>Scale Factor</b>	0.999976798		
<b>Elevation Adjust. Factor</b>	0.9999755764		
<b>Combined Adjust. Factor</b>	0.9999523750		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with guy wires	300	10.36	34.0
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	690009A
<b>Geodetic Azimuth</b>	128 28 47
<b>Grid Azimuth</b>	128 35 21

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TRI COUNTY	
<b>Ref Mon # 2</b> MONA	
<b>Ref Mon # 3</b> ARHR, ARBT, C 39, 690006	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690009A	<b>Date Monumented</b> 9/16/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> Culp	<b>Job Number:</b> FA0312
---------------------------	-------------------------------------	------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,086.3339	
<b>Easting (M)</b>	383,401.6680	
<b>Elevation (M)*</b>	164.909	
<b>Northing (SFT)</b>	643,326.5805	
<b>Easting (SFT)</b>	1,257,876.9724	
<b>Elevation (SFT)*</b>	541.039	

  

<b>Convergence Angle</b>	0	6	26.1412660
<b>Scale Factor</b>	0.999976461		
<b>Elevation Adjust. Factor</b>	0.9999741211		
<b>Combined Adjust. Factor</b>	0.9999505827		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	10	1.52	5.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>TRI COUNTY</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>MONA</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>ARHR, ARBT, C 39, 690006</td> </tr> </table>	Area Reference Monuments (used for Processing)		<b>Ref Mon # 1</b>	TRI COUNTY	<b>Ref Mon # 2</b>	MONA	<b>Ref Mon # 3</b>	ARHR, ARBT, C 39, 690006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
<b>Ref Mon # 1</b>	TRI COUNTY										
<b>Ref Mon # 2</b>	MONA										
<b>Ref Mon # 3</b>	ARHR, ARBT, C 39, 690006										
Comments											

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 6 2.2569768
<b>Longitude</b>	92 11 3.5879784
<b>Ellipsoid Height (M):</b>	136.931
<b>Geoid Height (M):</b>	-27.978

  

Location Description
<p>To reach from the Stone county line at Calico Rock on Hwy 5, go south on Hwy 5 for 2.0 miles to Culp road on the right, go right on Culp road for 2.3 miles to the station on the right. The station mark is a 2 1/2 inch cap stamped "690009A, 2010" set in top of a rock outcropping.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690010	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 66	<b>Job Number:</b> 050231
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,875.8580	
<b>Easting (M)</b>	386,238.0710	
<b>Elevation (M)*</b>	199.140	
<b>Northing (SFT)</b>	557,334.3775	
<b>Easting (SFT)</b>	1,267,182.7379	
<b>Elevation (SFT)*</b>	653.346	

  

<b>Convergence Angle</b>	0	5	19.2120537
<b>Scale Factor</b>	0.999947856		
<b>Elevation Adjust. Factor</b>	0.9999687494		
<b>Combined Adjust. Factor</b>	0.9999166070		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	12	48.46	159.0
<b>MK # 2</b>	Combination pole with guy	75	7.93	26.0
<b>MK # 3</b>	Pole with three transformers	180	54.86	180.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690010A	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> NA	<b>Job Number:</b> 050231
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,300.1220	
<b>Easting (M)</b>	386,252.2690	
<b>Elevation (M)*</b>	204.912	
<b>Northing (SFT)</b>	558,726.3169	
<b>Easting (SFT)</b>	1,267,229.3192	
<b>Elevation (SFT)*</b>	672.283	

  

<b>Convergence Angle</b>	0	5	18.8979413
<b>Scale Factor</b>	0.999948184		
<b>Elevation Adjust. Factor</b>	0.9999678436		
<b>Combined Adjust. Factor</b>	0.9999160293		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Center of a gate	345	7.01	23.0
<b>MK # 2</b>	South end of a 18 inch CMP	37	3.20	10.5
<b>MK # 3</b>	South end of a chain link fence	184	25.60	84.0

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> Tri County <b>Ref Mon # 2</b> P777 <b>Ref Mon # 3</b> ARBT	<b>Comments</b>  Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690011	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 66	<b>Job Number:</b> 050231
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,817.5769	
<b>Easting (M)</b>	382,642.3410	
<b>Elevation (M)*</b>	212.529	
<b>Northing (SFT)</b>	563,704.8335	
<b>Easting (SFT)</b>	1,255,385.7471	
<b>Elevation (SFT)*</b>	697.271	

  

<b>Convergence Angle</b>	0	6	42.7038255
<b>Scale Factor</b>	0.999949387		
<b>Elevation Adjust. Factor</b>	0.9999666484		
<b>Combined Adjust. Factor</b>	0.9999160371		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Concrete right of way marker	289	32.92	108.0
<b>MK # 2</b>	Center of a wooden fence brace	99	34.44	113.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690011A	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 66	<b>Job Number:</b> 050231
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	171,848.7409		
<b>Easting (M)</b>	382,213.6000		
<b>Elevation (M)*</b>	203.034		
<b>Northing (SFT)</b>	563,807.0774		
<b>Easting (SFT)</b>	1,253,979.1193		
<b>Elevation (SFT)*</b>	666.121		

  

<b>Convergence Angle</b>	0	6	52.6521890
<b>Scale Factor</b>	0.999949412		
<b>Elevation Adjust. Factor</b>	0.9999681383		
<b>Combined Adjust. Factor</b>	0.9999175520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	77	26.52	87.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
Ref Mon # 2 P777	
Ref Mon # 3 ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690012	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 66	<b>Job Number:</b> 050231
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	172,560.5870	
<b>Easting (M)</b>	377,310.0160	
<b>Elevation (M)*</b>	183.755	
<b>Northing (SFT)</b>	566,142.5258	
<b>Easting (SFT)</b>	1,237,891.2775	
<b>Elevation (SFT)*</b>	602.870	

  

<b>Convergence Angle</b>	0	8	46.4591746
<b>Scale Factor</b>	0.999949990		
<b>Elevation Adjust. Factor</b>	0.9999711636		
<b>Combined Adjust. Factor</b>	0.9999211551		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	West end of a 15 inch CMP	195	15.24	50.0
<b>MK # 2</b>	Southeast corner of a building	355	16.76	55.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 690012A	<b>Date Monumented</b> 10/18/2010	<b>Monumented By</b> AHTD	<b>County</b> Stone	<b>Route</b> 66	<b>Job Number:</b> 050231
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	172,534.0599	
<b>Easting (M)</b>	376,901.3830	
<b>Elevation (M)*</b>	208.672	
<b>Northing (SFT)</b>	566,055.4949	
<b>Easting (SFT)</b>	1,236,550.6207	
<b>Elevation (SFT)*</b>	684.618	

  

<b>Convergence Angle</b>	0	8	55.9387471
<b>Scale Factor</b>	0.999949967		
<b>Elevation Adjust. Factor</b>	0.9999672536		
<b>Combined Adjust. Factor</b>	0.9999172223		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	294	12.80	42.0
<b>MK # 2</b>	center of a steel gate	284	7.32	24.0
<b>MK # 3</b>	15 inch Cherry tree	99	24.69	81.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700001	<b>Date Monumented</b> 5/1/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> 070076,070059,7997
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,766.0265	
<b>Easting (M)</b>	340,860.8380	
<b>Elevation (M)*</b>	81.301	
<b>Northing (SFT)</b>	1,511,696.5386	
<b>Easting (SFT)</b>	1,118,307.5993	
<b>Elevation (SFT)*</b>	266.735	

  

<b>Convergence Angle</b>	0	21	18.1228029
<b>Scale Factor</b>	1.000020464		
<b>Elevation Adjust. Factor</b>	0.9999872414		
<b>Combined Adjust. Factor</b>	1.0000077051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	12	46.3676760
<b>Longitude</b>	92	38	3.6113244
<b>Ellipsoid Height:</b>	54.517		
<b>Grid Northing (Meters)</b>	460,766.3711		
<b>Grid Easting (Meters)</b>	340,861.1553		

  

Location Description				
<p>FROM THE JCT. OF HWY. 167 AND HWY. 82B IN SOUTH ELDORADO, GO NORTH ON HWY 167 FOR 1.609 KM (1.0 MI) TO THE JCT. WITH HWY. 15 THAT IS ALSO MAIN STREET, TAKE THE HWY. 15 EXIT AND CONTINUE AHEAD FOR 0.38 KM (0.24 MI) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL IN AN OPEN AREA ON TOP OF THE BANK BETWEEN HWY. 167 AND THE EXIT RAMP. THE STATION IS 75.755 METERS SOUTH OF THE CENTER OF HWY. 15 OVERPASS, 18.7 METERS WEST OF THE CENTERLINE OF THE OFF RAMP AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "700001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 629.872 METERS. THIS STATION WAS UPDATED ON 5/10/00.</p>				

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	6TH GUARD RAIL POST FROM SOUTH END		128	14.00	45.9	700001A
MK # 2	9TH GUARD RAIL POST FROM SOUTH END		80	13.20	43.3	7 09 16.753652
MK # 3	12TH GUARD RAIL POST FROM SOUTH END		48	20.30	66.6	7 30 34.858411

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="STELL"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="S 197"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="700009"/>	<p>From Job 070059 Elevation (NGVD29) = 266.912 FT. This was converted using VERTCON to NAVD88</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700001A	<b>Date Monumented</b> 5/1/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> 070059,070076,070074,7997
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	461,390.4913	
<b>Easting (M)</b>	340,943.1577	
<b>Elevation (M)*</b>	84.488	
<b>Northing (SFT)</b>	1,513,745.3035	
<b>Easting (SFT)</b>	1,118,577.6766	
<b>Elevation (SFT)*</b>	277.190	

  

<b>Convergence Angle</b>	0	21	16.4272599
<b>Scale Factor</b>	1.000019072		
<b>Elevation Adjust. Factor</b>	0.9999867413		
<b>Combined Adjust. Factor</b>	1.0000058130		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	13	6.6532980
<b>Longitude</b>	92	38	0.5820288
<b>Ellipsoid Height:</b>	57.720		
<b>Grid Northing (Meters)</b>	461,390.8423		
<b>Grid Easting (Meters)</b>	340,943.4717		

  

Location Description			
<p>FROM THE JCT. OF HWY. 167 AND HWY. 82B IN SOUTH EL DORADO, GO NORTH ON HWY 167 FOR 2.62 KM (1.63 MI) TO THE STATION ON THE RIGHT ON TOP OF A DIRT BANK. THE STATION IS 16.2 METERS EAST OF THE CENTERLINE OF HWY 167, 42.3 METERS WEST OF NORTH-SOUTH RIGHT OF WAY FENCE LINE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "700001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 629.872. THIS STATION WAS UPDATED ON 5-10-00.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: STELL</p> <p>Ref Mon # 2: S 197</p> <p>Ref Mon # 3: 700009</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, &amp; S5104 in Mar 2006 - Dec 2006.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700002	<b>Date Monumented</b> 5/1/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> 070059
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	461,757.7180	
<b>Easting (M)</b>	345,906.2970	
<b>Elevation (M)*</b>	64.151	
<b>Northing (SFT)</b>	1,514,950.1131	
<b>Easting (SFT)</b>	1,134,860.9094	
<b>Elevation (SFT)*</b>	210.469	

  

<b>Convergence Angle</b>	0	19	29.2036577
<b>Scale Factor</b>	1.000018193		
<b>Elevation Adjust. Factor</b>	0.9999899327		
<b>Combined Adjust. Factor</b>	1.0000081255		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	220	13.00	42.7
MK # 2	4" x 4" FENCE POST	150	4.00	13.1
MK # 3	4" x 4" FENCE POST	77	13.00	42.7

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    WARRPORT 1990 Ref Mon # 2    STELL 1986 Ref Mon # 3    NORPHLET 1952	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    13    19.5163392
<b>Longitude</b>	92    34    49.0175328
<b>Ellipsoid Height (M):</b>	37.327
<b>Geoid Height (M):</b>	-26.824

  

Location Description
FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.26 KM (3.27 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.5 METERS EAST OF THE CENTERLINE OF HWY. 15, 22.5 METERS NORTH OF THE CENTER OF AN ASPHALT DRIVEWAY, 51.0 METERS SOUTH OF A GRAVEL DRIVEWAY AND 3.87 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700002A	<b>Date Monumented</b> 5/1/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> 070059
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	461,994.0270	
<b>Easting (M)</b>	346,342.6380	
<b>Elevation (M)*</b>	73.008	
<b>Northing (SFT)</b>	1,515,725.4036	
<b>Easting (SFT)</b>	1,136,292.4715	
<b>Elevation (SFT)*</b>	239.527	

  

<b>Convergence Angle</b>	0	19	19.8013230
<b>Scale Factor</b>	1.000017666		
<b>Elevation Adjust. Factor</b>	0.9999885428		
<b>Combined Adjust. Factor</b>	1.0000062086		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	330	1.60	5.2
<b>MK # 2</b>	8" WILD CHERRY TREE	255	14.70	48.2
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	55	13.70	44.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> WARRPORT 1990	
<b>Ref Mon # 2</b> STELL 1986	
<b>Ref Mon # 3</b> NORPHLET 1952	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    13    27.2664408
<b>Longitude</b>	92    34    32.2183704
<b>Ellipsoid Height (M):</b>	46.184
<b>Geoid Height (M):</b>	-26.824

Location Description
<p>FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.74 KM (3.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.8 METERS WEST OF THE CENTERLINE OF HWY. 15, 31.7 METERS NORTH OF A GRAVEL DRIVEWAY, 25.0 METERS SOUTH OF A GRAVEL DRIVEWAY, 4.2 METERS EAST OF A GAS METER AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700003	<b>Date Monumented</b> 5/1/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105, 070059
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	463,169.6335	
<b>Easting (M)</b>	351,554.4371	
<b>Elevation (M)*</b>	44.936	
<b>Northing (SFT)</b>	1,519,582.3726	
<b>Easting (SFT)</b>	1,153,391.5157	
<b>Elevation (SFT)*</b>	147.428	

  

<b>Convergence Angle</b>	0	17	27.2795910
<b>Scale Factor</b>	1.000015031		
<b>Elevation Adjust. Factor</b>	0.9999929481		
<b>Combined Adjust. Factor</b>	1.0000079790		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2ND GUARD RAIL POST	205	1.10	3.6
MK # 2	5TH GUARD RAIL POST	240	2.80	9.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    WARRPORT 1990	
Ref Mon # 2    STELL 1986	
Ref Mon # 3    NORPHLET 1952	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33   14   6.3295548
<b>Longitude</b>	92   31   11.1756612
<b>Ellipsoid Height (M):</b>	18.130
<b>Geoid Height (M):</b>	-26.806

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 &amp; HWY-129 IN THE SMALL VILLAGE OF OLD UNION ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.06 KM.(0.66 MI.) TO THE STATION ON THE LEFT BY THE NORTHWEST CORNER OF A BRIDGE. 7.10 METERS NORTH OF THE CENTERLINE OF HWY-15, 0.75 METERS NORTH OF THE BACK OF THE PARAPET WALL AND 1.04 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700003A	<b>Date Monumented</b> 5/1/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105, 070059
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	463,182.2649	
<b>Easting (M)</b>	351,981.8516	
<b>Elevation (M)*</b>	50.456	
<b>Northing (SFT)</b>	1,519,623.8141	
<b>Easting (SFT)</b>	1,154,793.7915	
<b>Elevation (SFT)*</b>	165.538	

  

<b>Convergence Angle</b>	0	17	18.0414211
<b>Scale Factor</b>	1.000014998		
<b>Elevation Adjust. Factor</b>	0.9999920819		
<b>Combined Adjust. Factor</b>	1.0000070798		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	35	28.20	92.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    WARRPORT 1990	
Ref Mon # 2    STELL 1986	
Ref Mon # 3    NORPHLET 1952	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    14    6.8096760
<b>Longitude</b>	92    30    54.6698124
<b>Ellipsoid Height (M):</b>	23.652
<b>Geoid Height (M):</b>	-26.804

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION THAT IS ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.48 KM. (0.92 MI.) TO THE STATION ON THE RIGHT. 40 METERS NORTHWEST OF THE NORTHEAST CORNER OF A CHICKEN HOUSE, 34.4 METERS NORTH OF THE NORTH SIDE OF THE CHICKEN HOUSE, 10.3 METERS SOUTH OF THE CENTERLINE OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700004	<b>Date Monumented</b> 7/24/1995	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> 070104
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	455,726.5100	
<b>Easting (M)</b>	330,228.4540	
<b>Elevation (M)*</b>	59.403	
<b>Northing (SFT)</b>	1,495,162.7249	
<b>Easting (SFT)</b>	1,083,424.5195	
<b>Elevation (SFT)*</b>	194.891	

  

<b>Convergence Angle</b>	0	25	7.1078382
<b>Scale Factor</b>	1.000032207		
<b>Elevation Adjust. Factor</b>	0.9999906778		
<b>Combined Adjust. Factor</b>	1.0000228845		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	3" STEEL FENCE CORNER POST	297	8.00	26.2
<b>MK # 2</b>	COMBINATION POLE	98	15.90	52.2
<b>MK # 3</b>	20" CONCRETE CULVERT	240	12.20	40.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> NORPHLET 1952	
<b>Ref Mon # 2</b> WYATT 1941	
<b>Ref Mon # 3</b> 700001	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 10 0.4548000
<b>Longitude</b>	92 44 52.7513244
<b>Ellipsoid Height (M):</b>	32.564
<b>Geoid Height (M):</b>	-26.839

Location Description
<p>FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 5.471 KM (3.40 MILES) TO THE JCT. OF HWY. 82 AND HWY. 15, GO SOUTH ON HWY. 15 FOR 6.759 KM (4.20 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 18.0 METERS EAST OF THE CENTERLINE OF NEWELL ROAD, 15.0 METERS NORTH OF THE CENTERLINE OF HWY. 15 AND 2.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700004A	<b>Date Monumented</b> 10/27/2004	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> 070273, 070104
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,659.3100	
<b>Easting (M)</b>	330,554.0630	
<b>Elevation (M)*</b>	53.135	
<b>Northing (SFT)</b>	1,494,942.2529	
<b>Easting (SFT)</b>	1,084,492.7884	
<b>Elevation (SFT)*</b>	174.328	

  

<b>Convergence Angle</b>	0	25	0.0641779
<b>Scale Factor</b>	1.000032360		
<b>Elevation Adjust. Factor</b>	0.9999916614		
<b>Combined Adjust. Factor</b>	1.0000240211		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	90	4.80	15.7
<b>MK # 2</b>	30" METAL CULVERT	240	5.50	18.0
<b>MK # 3</b>	METER POLE	330	8.60	28.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="IULM, SHRV"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="DQUA"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="CSAL"/>	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 82, SOUTH OF EL DORADO, GO SOUTH ON HIGHWAY 14 FOR 4.0 MILES TO THE STATION ON THE RIGHT, 13.2 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY, 12.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700004A 1995" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700005	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	462,867.1028	
<b>Easting (M)</b>	356,140.1177	
<b>Elevation (M)*</b>	60.333	
<b>Northing (SFT)</b>	1,518,589.8198	
<b>Easting (SFT)</b>	1,168,436.3695	
<b>Elevation (SFT)*</b>	197.943	

  

<b>Convergence Angle</b>	0	15	48.1193268
<b>Scale Factor</b>	1.000015641		
<b>Elevation Adjust. Factor</b>	0.9999905319		
<b>Combined Adjust. Factor</b>	1.0000061727		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	119	31.27	102.6
<b>MK # 2</b>	SOUTHEAST END OF HEADWALL	267	24.87	81.6
<b>MK # 3</b>	NORTHEAST END OF HEADWALL	294	29.28	96.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> STELL 1986 <b>Ref Mon # 2</b> WARRPORT 1986 <b>Ref Mon # 3</b> 700003	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NUMBER M-201, ELEVATION = 66.942 METERS DATUM OF NAVD88.

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    33    13    57.2298852

**Longitude**    92    28    14.0059020

**Ellipsoid Height (M):**    33.548   

**Geoid Height (M):**    -26.785

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION, ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT. 32.72 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY, 8.44 METERS SOUTH OF THE CENTER OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700005A	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	462,916.2565		
<b>Easting (M)</b>	355,716.1985		
<b>Elevation (M)*</b>	63.951		
<b>Northing (SFT)</b>	1,518,751.0849		
<b>Easting (SFT)</b>	1,167,045.5612		
<b>Elevation (SFT)*</b>	209.813		

  

<b>Convergence Angle</b>	0	15	57.2879891
<b>Scale Factor</b>	1.000015538		
<b>Elevation Adjust. Factor</b>	0.9999899641		
<b>Combined Adjust. Factor</b>	1.0000055019		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT AND THE JUNCTION OF "FRISBY ROAD" WITH HWY-15 ON THE RIGHT. 40.49 METERS EAST OF THE CENTER OF A DRIVEWAY. 10.89 METERS NORTH OF THE CENTER OF HWY-15 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700005A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	POWER POLE			24.82	81.4	
MK # 2	LIGHT POLE			32.25	105.8	
MK # 3	WATER METER			14.63	48.0	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    STELL 1986</p> <p>Ref Mon # 2    WARRPORT 1986</p> <p>Ref Mon # 3    700003</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700006	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	464,921.3129	
<b>Easting (M)</b>	362,047.9939	
<b>Elevation (M)*</b>	48.027	
<b>Northing (SFT)</b>	1,525,329.3407	
<b>Easting (SFT)</b>	1,187,819.1267	
<b>Elevation (SFT)*</b>	157.569	

  

<b>Convergence Angle</b>	0	13	40.5868437
<b>Scale Factor</b>	1.000011157		
<b>Elevation Adjust. Factor</b>	0.9999924631		
<b>Combined Adjust. Factor</b>	1.0000036200		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	42	6.55	21.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 STELL 1986	
Ref Mon # 2 WARRPORT 1986	
Ref Mon # 3 700003	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 15 4.7283876
<b>Longitude</b>	92 24 26.1434664
<b>Ellipsoid Height (M):</b>	21.270
<b>Geoid Height (M):</b>	-26.757

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 12.15 KM. (7.55 MI.) TO A CLEARCUT AREA AND THE STATION ON THE LEFT. 10.28 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-15 AND 0.70 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700006A	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	464,680.9227	
<b>Easting (M)</b>	361,539.3223	
<b>Elevation (M)*</b>	51.091	
<b>Northing (SFT)</b>	1,524,540.6606	
<b>Easting (SFT)</b>	1,186,150.2599	
<b>Elevation (SFT)*</b>	167.621	

  

<b>Convergence Angle</b>	0	13	51.5641145
<b>Scale Factor</b>	1.000011674		
<b>Elevation Adjust. Factor</b>	0.9999919822		
<b>Combined Adjust. Factor</b>	1.0000036561		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RAILROAD TIE FENCE CORNER POST	68	20.48	67.2
<b>MK # 2</b>	RAILROAD TIE FENCE POST	242	24.60	80.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> STELL 1986	
<b>Ref Mon # 2</b> WARRPORT 1986	
<b>Ref Mon # 3</b> 700003	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    14    56.8595724
<b>Longitude</b>	92    24    45.7565688
<b>Ellipsoid Height (M):</b>	24.331
<b>Geoid Height (M):</b>	-26.760

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 11.59 KM. (7.20 MI.) TO THE STATION ON THE RIGHT. 22.7 METERS SOUTHWEST OF A FIELD ENTRANCE, 11.7 METERS SOUTH-SOUTHEAST OF THE CENTER OF HWY-15 AND 0.77 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700007	<b>Date Monumented</b> 5/14/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> R70105
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	467,865.6571	
<b>Easting (M)</b>	367,543.8353	
<b>Elevation (M)*</b>	33.827	
<b>Northing (SFT)</b>	1,534,989.2433	
<b>Easting (SFT)</b>	1,205,850.0663	
<b>Elevation (SFT)*</b>	110.981	

  

<b>Convergence Angle</b>	0	11	41.9750690
<b>Scale Factor</b>	1.000004946		
<b>Elevation Adjust. Factor</b>	0.9999946915		
<b>Combined Adjust. Factor</b>	0.9999996374		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EAST ON HWY-15 FOR 1.29 KM. (0.80 MI.) TO THE STATION ON THE LEFT NEAR THE SOUTH END OF THE BRIDGE OVER THE OUACHITA RIVER. 12.0 METERS SOUTH OF THE BRIDGE END, 6.60 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	4th GUARD RAIL POST SOUTH OF THE BRID	25	4.04	13.3
MK # 2	7th GUARD RAIL POST SOUTH OF THE BRID	51	1.47	4.8
MK # 3	11th GUARD RAIL POST SOUTH OF THE BRI	192	8.45	27.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    STELL 1986</p> <p><b>Ref Mon # 2</b>    WARRPORT 1986</p> <p><b>Ref Mon # 3</b>    700003</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE USING USC&amp;GS BENCH MARK NUMBER V-201, ELEVATION = 33.623 METERS DATUM OF NAVD88.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700008	<b>Date Monumented</b> 5/16/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> R70058
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	439,615.5875	
<b>Easting (M)</b>	332,318.4507	
<b>Elevation (M)*</b>	60.399	
<b>Northing (SFT)</b>	1,442,305.4733	
<b>Easting (SFT)</b>	1,090,281.4503	
<b>Elevation (SFT)*</b>	198.159	

  

<b>Convergence Angle</b>	0	24	19.5017710
<b>Scale Factor</b>	1.000073351		
<b>Elevation Adjust. Factor</b>	0.9999905215		
<b>Combined Adjust. Factor</b>	1.0000638718		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	72	23.40	76.8
<b>MK # 2</b>	METAL POLE	188	29.55	96.9
<b>MK # 3</b>	COMBINATION POLE	281	23.40	76.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> STELL 1986	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.
<b>Ref Mon # 2</b> WYATT 1941	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700008A	<b>Date Monumented</b> 5/16/1996	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> R70058
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	439,954.6957	
<b>Easting (M)</b>	332,451.5989	
<b>Elevation (M)*</b>	52.261	
<b>Northing (SFT)</b>	1,443,418.0308	
<b>Easting (SFT)</b>	1,090,718.2874	
<b>Elevation (SFT)*</b>	171.460	

  

<b>Convergence Angle</b>	0	24	16.6822678
<b>Scale Factor</b>	1.000072417		
<b>Elevation Adjust. Factor</b>	0.9999917986		
<b>Combined Adjust. Factor</b>	1.0000642150		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST	82	9.95	32.6
<b>MK # 2</b>	COMBINATION POLE	92	16.55	54.3
<b>MK # 3</b>	GUY POLE	162	2.70	8.9

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> STELL 1986 <b>Ref Mon # 2</b> WYATT 1941 <b>Ref Mon # 3</b>	<b>Comments</b>  ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.
---	---

  

Location Description	
TO REACH THE STATION FROM THE ARKANSAS AND LOUISIANA STATE LINE IN THE SMALL TOWN OF JUNCTION CITY GO NORTH ON HWY-167 FOR 1.17 KM. (0.73 MI.) TO THE STATION ON THE LEFT JUST SOUTH OF THE ENTRANCE TO A CEMETERY. 26.7 METERS NORTHWEST OF THE CENTER OF HWY-167 AND 0.96 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	700008
<b>Geodetic Azimuth</b>	201 01 56.70431
<b>Grid Azimuth</b>	201 26 13.42361

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700009	<b>Date Monumented</b> 7/23/1997	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170, 070074, 7997
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	457,817.2130	
<b>Easting (M)</b>	340,732.0600	
<b>Elevation (M)*</b>	81.936	
<b>Northing (SFT)</b>	1,502,021.9730	
<b>Easting (SFT)</b>	1,117,885.1002	
<b>Elevation (SFT)*</b>	268.818	

  

<b>Convergence Angle</b>	0	21	20.5102601
<b>Scale Factor</b>	1.000027163		
<b>Elevation Adjust. Factor</b>	0.9999871417		
<b>Combined Adjust. Factor</b>	1.0000143044		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH POINT IN TOP OF GUARD RAIL	282	3.90	12.8
<b>MK # 2</b>	PUNCH POINT IN TOP OF GUARD RAIL	37	2.15	7.1
<b>MK # 3</b>	SW CORNER OF BRIDGE = TBM 1	62	11.40	37.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> S 197	Vertical established from GPS 700015 on Job # 070076 which is based on NGS N 198 AZ MARK STATION REPORTED DESTROYED BY RE 76 ON 10/24/2014.
<b>Ref Mon # 2</b> MAGNOLIA 2	
<b>Ref Mon # 3</b> STELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700010	<b>Date Monumented</b> 6/23/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,125.0199	
<b>Easting (M)</b>	347,300.2680	
<b>Elevation (M)*</b>	69.880	
<b>Northing (SFT)</b>	1,493,189.3361	
<b>Easting (SFT)</b>	1,139,434.2959	
<b>Elevation (SFT)*</b>	229.265	

  

<b>Convergence Angle</b>	0	18	58.2832704
<b>Scale Factor</b>	1.000033371		
<b>Elevation Adjust. Factor</b>	0.9999890337		
<b>Combined Adjust. Factor</b>	1.0000224043		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 7.56 KM (4.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> S 197 <b>Ref Mon # 2</b> MAGNOLIA 2 <b>Ref Mon # 3</b> STELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700010A	<b>Date Monumented</b> 6/23/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,114.6619	
<b>Easting (M)</b>	348,020.8790	
<b>Elevation (M)*</b>	64.315	
<b>Northing (SFT)</b>	1,493,155.3533	
<b>Easting (SFT)</b>	1,141,798.5005	
<b>Elevation (SFT)*</b>	211.007	

  

<b>Convergence Angle</b>	0	18	42.7175873
<b>Scale Factor</b>	1.000033387		
<b>Elevation Adjust. Factor</b>	0.9999899070		
<b>Combined Adjust. Factor</b>	1.0000232936		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 8.29 KM (5.15 MI) TO THE STATION ON THE LEFT SET ON A POND LEVEE. THE STATION IS 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.64 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					700010
MK # 2	NONE					270 30 41.72133
MK # 3	NONE					270 49 24.61522

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700011	<b>Date Monumented</b> 6/23/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	453,785.4560	
<b>Easting (M)</b>	350,221.7870	
<b>Elevation (M)*</b>	70.293	
<b>Northing (SFT)</b>	1,488,794.4502	
<b>Easting (SFT)</b>	1,149,019.3128	
<b>Elevation (SFT)*</b>	230.620	

  

<b>Convergence Angle</b>	0	17	55.0305539
<b>Scale Factor</b>	1.000036533		
<b>Elevation Adjust. Factor</b>	0.9999889689		
<b>Combined Adjust. Factor</b>	1.0000255015		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST END OF A PLASTIC CULVERT	308	16.25	53.3
<b>MK # 2</b>	METAL GATE POST	289	16.80	55.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> S 197	
<b>Ref Mon # 2</b> MAGNOLIA 2	
<b>Ref Mon # 3</b> STELL	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 9 1.5143832
<b>Longitude</b>	92 32 0.7583388
<b>Ellipsoid Height (M):</b>	44.156
<b>Geoid Height (M):</b>	-26.137

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 11.10 KM (6.9 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.929 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700011A	<b>Date Monumented</b> 6/23/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	453,642.4969				
<b>Easting (M)</b>	350,656.8430				
<b>Elevation (M)*</b>	65.543				
<b>Northing (SFT)</b>	1,488,325.4252				
<b>Easting (SFT)</b>	1,150,446.6591				
<b>Elevation (SFT)*</b>	215.036				

  

<b>Convergence Angle</b>	0	17	45.6191239
<b>Scale Factor</b>	1.000036871		
<b>Elevation Adjust. Factor</b>	0.9999897143		
<b>Combined Adjust. Factor</b>	1.0000265849		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COBINATION POLE=TBM 901	295	28.08	92.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	700011
<b>Geodetic Azimuth</b>	287 53 39.92103
<b>Grid Azimuth</b>	288 11 25.64830

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> S 197	
<b>Ref Mon # 2</b> MAGNOLIA 2	
<b>Ref Mon # 3</b> STELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700012	<b>Date Monumented</b> 6/24/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,605.3539	
<b>Easting (M)</b>	355,936.5940	
<b>Elevation (M)*</b>	64.087	
<b>Northing (SFT)</b>	1,481,641.8986	
<b>Easting (SFT)</b>	1,167,768.6421	
<b>Elevation (SFT)*</b>	210.259	

  

<b>Convergence Angle</b>	0	15	51.3959533
<b>Scale Factor</b>	1.000041763		
<b>Elevation Adjust. Factor</b>	0.9999899428		
<b>Combined Adjust. Factor</b>	1.0000317053		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 17.22 KM (10.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.49 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    S 197</p> <p>Ref Mon # 2    MAGNOLIA 2</p> <p>Ref Mon # 3    STELL</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700012A	<b>Date Monumented</b> 6/24/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	451,641.9310	
<b>Easting (M)</b>	356,686.3520	
<b>Elevation (M)*</b>	61.397	
<b>Northing (SFT)</b>	1,481,761.9020	
<b>Easting (SFT)</b>	1,170,228.4732	
<b>Elevation (SFT)*</b>	201.433	

  

<b>Convergence Angle</b>	0	15	35.2113435
<b>Scale Factor</b>	1.000041665		
<b>Elevation Adjust. Factor</b>	0.9999903649		
<b>Combined Adjust. Factor</b>	1.0000320295		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 18.03 KM (11.2 MI) TO THE STATION ON THE LEFT. THE STATION IS 56.00 METERS WEST OF THE CENTER OF THE OLD STRONG HIGHWAY 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					700012
MK # 2	NONE					266 56 50.08078
MK # 3	NONE					267 12 25.48199

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    S 197	
Ref Mon # 2    MAGNOLIA 2	
Ref Mon # 3    STELL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700013	<b>Date Monumented</b> 6/24/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070170
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,423.7889	
<b>Easting (M)</b>	365,039.7450	
<b>Elevation (M)*</b>	39.067	
<b>Northing (SFT)</b>	1,474,484.5474	
<b>Easting (SFT)</b>	1,197,634.5634	
<b>Elevation (SFT)*</b>	128.172	

  

<b>Convergence Angle</b>	0	12	34.6747209
<b>Scale Factor</b>	1.000047087		
<b>Elevation Adjust. Factor</b>	0.9999938692		
<b>Combined Adjust. Factor</b>	1.0000409559		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 26.55 KM (16.50 MI) TO THE STATION ON THE RIGHT NEXT TO A CAR WASH. THE STATION IS 13.50 METERS EAST OF THE CENTER OF A CONCRETE DRIVE TO A CAR WASH, 11.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE DITCH. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 275.982 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>AZ Mark Station</b>	700013A
<b>Geodetic Azimuth</b>	288 45 36.37184
<b>Grid Azimuth</b>	288 58 11.11417

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700013A	<b>Date Monumented</b> 6/24/1999	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070241, 070170
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,513.5079	
<b>Easting (M)</b>	364,778.7340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,474,778.9005	
<b>Easting (SFT)</b>	1,196,778.2298	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	40.3161632
<b>Scale Factor</b>	1.000046864		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 26.88 KM (16.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.30 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 82, 14.80 METERS WEST-NORTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700013A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 275.982 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPE CORS, 700013A</p> <p>Ref Mon # 2: IULM CORS</p> <p>Ref Mon # 3: LROC CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700014	<b>Date Monumented</b> 2/2/2000	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> 070076,7997,070373
--------------------------	------------------------------------	------------------------------	------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	465,291.9589	
<b>Easting (M)</b>	339,571.9848	
<b>Elevation (M)*</b>	61.131	
<b>Northing (SFT)</b>	1,526,545.3685	
<b>Easting (SFT)</b>	1,114,079.0868	
<b>Elevation (SFT)*</b>	200.561	

  

<b>Convergence Angle</b>	0	21	46.5965257
<b>Scale Factor</b>	1.000010615		
<b>Elevation Adjust. Factor</b>	0.9999904066		
<b>Combined Adjust. Factor</b>	1.0000010215		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	288	6.50	21.3
<b>MK # 2</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	303	5.50	18.0
<b>MK # 3</b>	PUNCH MARK IN TOP OF METAL GUARD R ALL POST	324	4.96	16.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="STELL"/>	3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.
<b>Ref Mon # 2</b> <input type="text" value="S 197"/>	
<b>Ref Mon # 3</b> <input type="text" value="700009"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700014A	<b>Date Monumented</b> 2/2/2000	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> 070076,7997,070373
---------------------------	------------------------------------	------------------------------	------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	464,902.2578	
<b>Easting (M)</b>	340,083.6639	
<b>Elevation (M)*</b>	49.386	
<b>Northing (SFT)</b>	1,525,266.8241	
<b>Easting (SFT)</b>	1,115,757.8206	
<b>Elevation (SFT)*</b>	162.027	

  

<b>Convergence Angle</b>	0	21	35.4801835
<b>Scale Factor</b>	1.000011438		
<b>Elevation Adjust. Factor</b>	0.9999922498		
<b>Combined Adjust. Factor</b>	1.0000036877		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO SOUTHEAST ON U.S. HIGHWAY 167 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.42 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.182 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="STELL"/></p> <p>Ref Mon # 2: <input type="text" value="S 197"/></p> <p>Ref Mon # 3: <input type="text" value="700009"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, &amp; S5104 in Mar 2006 - Dec 2006.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700015	<b>Date Monumented</b> 2/2/2000	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070076,7997
--------------------------	------------------------------------	------------------------------	------------------------	-------------------	-----------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,093.9145	
<b>Easting (M)</b>	337,401.0806	
<b>Elevation (M)*</b>	50.384	
<b>Northing (SFT)</b>	1,539,018.9512	
<b>Easting (SFT)</b>	1,106,956.7119	
<b>Elevation (SFT)*</b>	165.302	

  

<b>Convergence Angle</b>	0	22	34.0749419
<b>Scale Factor</b>	1.000002741		
<b>Elevation Adjust. Factor</b>	0.9999920931		
<b>Combined Adjust. Factor</b>	0.9999948341		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 11.10 METERS NORTHEAST OF THE CENTER OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 8.30 METERS SOUTHWEST OF THE CENTET OF NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.89 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    STELL</p> <p><b>Ref Mon # 2</b>    S 197</p> <p><b>Ref Mon # 3</b>    700009</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, &amp; S5104 in Mar 2006 - Dec 2006.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700015A	<b>Date Monumented</b> 2/2/2000	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070076,7997,070368
---------------------------	------------------------------------	------------------------------	------------------------	-------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,836.8788	
<b>Easting (M)</b>	336,952.0807	
<b>Elevation (M)*</b>	43.156	
<b>Northing (SFT)</b>	1,541,456.4932	
<b>Easting (SFT)</b>	1,105,483.6181	
<b>Elevation (SFT)*</b>	141.588	

  

<b>Convergence Angle</b>	0	22	43.8932257
<b>Scale Factor</b>	1.000001244		
<b>Elevation Adjust. Factor</b>	0.9999932274		
<b>Combined Adjust. Factor</b>	0.9999944714		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	17	39.9654600
<b>Longitude</b>	92	40	36.8709024
<b>Ellipsoid Height:</b>	16.948		
<b>Grid Northing (Meters)</b>	469,836.8641		
<b>Grid Easting (Meters)</b>	336,952.0472		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 10.15 SOUTHWEST OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.57 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1: <input type="text" value="STELL"/></p> <p>Ref Mon # 2: <input type="text" value="S 197"/></p> <p>Ref Mon # 3: <input type="text" value="700009"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, &amp; S5104 in Mar 2006 - Dec 2006.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700016	<b>Date Monumented</b> 1/23/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070249
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	475,805.4231	
<b>Easting (M)</b>	331,405.5460	
<b>Elevation (M)*</b>	46.115	

  

<b>Northing (SFT)</b>	1,561,038.2923	
<b>Easting (SFT)</b>	1,087,286.3622	
<b>Elevation (SFT)*</b>	151.295	

  

<b>Convergence Angle</b>	0 24	44.8048906
<b>Scale Factor</b>	0.999989729	
<b>Elevation Adjust. Factor</b>	0.9999927631	
<b>Combined Adjust. Factor</b>	0.9999824922	

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

**Location Description**

THE STATION IS SOUTHWEST OF SMACKOVER, AND LOCATED AT THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 172 IN THE MEDIAN OF HIGHWAY 7. 19.70 METERS NORTH FROM THE CENTER OF THE SOUTH BOUND LANE, 18.0 METERS SOUTH OF THE CENTER OF THE NORTH BOUND LANE, 12.80 METERS WEST FROM THE CENTER OF THE CROSS OVER ROAD, AND 0.50 METERS EAST OF A WITNESS POST.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	700016
<b>Geodetic Azimuth</b>	122 12 41
<b>Grid Azimuth</b>	122 37 26

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    AHTD MON 1</p> <p><b>Ref Mon # 2</b>    Winnfield CORS</p> <p><b>Ref Mon # 3</b>    Vicksburg CORS</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV BY 3WR FROM NGS PT N 198</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700016A	<b>Date Monumented</b> 1/23/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070249
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	475,566.9071	
<b>Easting (M)</b>	331,778.1600	
<b>Elevation (M)*</b>	51.149	
<b>Northing (SFT)</b>	1,560,255.7610	
<b>Easting (SFT)</b>	1,088,508.8466	
<b>Elevation (SFT)*</b>	167.810	

  

<b>Convergence Angle</b>	0	24	36.7025505
<b>Scale Factor</b>	0.999990170		
<b>Elevation Adjust. Factor</b>	0.9999919732		
<b>Combined Adjust. Factor</b>	0.9999821433		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 172, SOUTHWEST OF SMACKOVER, GO SOUTH ON HIGHWAY 7 0.25 MILES TO THE STATION ON THE LEFT IN THE MEDIAN, 19.0 METERS NORTH OF THE CENTER OF THE SOUTH BOUND LANE, 18.70 METERS SOUTH OF THE CENTER OF THE NORTH BOUND LANE, AND 0.50 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED 700016A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD MON 1</p> <p><b>Ref Mon # 2</b>    Winnfield CORS</p> <p><b>Ref Mon # 3</b>    Vicksburg CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3WR FROM NGS PT N 198</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700017	<b>Date Monumented</b> 1/23/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 160	<b>Job Number:</b> 070243
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	472,197.4551	
<b>Easting (M)</b>	319,460.4180	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,549,201.1506	
<b>Easting (SFT)</b>	1,048,096.3881	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	2.6995351
<b>Scale Factor</b>	0.999996815		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	UNDER GROUND CABLE MARKER	86	13.60	44.6
<b>MK # 2</b>	POWER POLE WITH GUY	261	29.10	95.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	
<b>Ref Mon # 2</b> AHTD HOPE 1	
<b>Ref Mon # 3</b> Winnfield CORS	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude**    33    18    52.3097928

**Longitude**    92    51    53.6832828

**Ellipsoid Height (M):**    28.713   

**Geoid Height (M):**    -26.172

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 160, SOUTH WEST OF SMACKOVER, GO WEST ON HIGHWAY 160 7.65 MILES TO THE STATION ON THE LEFT. 11.30 METERS SOUTH OF THE CENTER OF THE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700017 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700017A	<b>Date Monumented</b> 1/23/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 160	<b>Job Number:</b> 070243
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	472,368.2381	
<b>Easting (M)</b>	319,870.6540	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,549,761.4612	
<b>Easting (SFT)</b>	1,049,442.3040	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	53.8544112
<b>Scale Factor</b>	0.999996474		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER AND R/ NUMBER	80	13.90	45.6
MK # 2	POWER POLE	71	32.30	106.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 Winnfield CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 18 57.9652272
<b>Longitude</b>	92 51 37.8796896
<b>Ellipsoid Height (M):</b>	23.211
<b>Geoid Height (M):</b>	-26.171

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 160, SOUTHWEST OF SMACKOVER, GO WEST ON HIGHWAY 160 7.35 MILES TO THE STATION ON THE LEFT. 9.10 METERS SOUTH OF THE CENTER OF THE ROAD AND EAST 23.90 METERS OF A PAVED COUNTY ROAD, AND 5.75 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700017A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700018	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070241
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	439,413.6679	
<b>Easting (M)</b>	367,414.7560	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,441,643.0088	
<b>Easting (SFT)</b>	1,205,426.5786	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	42.6704849
<b>Scale Factor</b>	1.000073401		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA STATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 0.75 MILES TO THE STATION MARK ON THE LEFT, WEST 11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST WITH LOCK	333	27.50	90.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPE CORS, 700013A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>IULM CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LROC CORS</td> </tr> </table>	Ref Mon # 1	HOPE CORS, 700013A	Ref Mon # 2	IULM CORS	Ref Mon # 3	LROC CORS	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 140px;"></td> </tr> </table>	Comments	
Ref Mon # 1	HOPE CORS, 700013A								
Ref Mon # 2	IULM CORS								
Ref Mon # 3	LROC CORS								
Comments									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700018A	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070241
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	438,315.0069	
<b>Easting (M)</b>	368,539.2130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,438,038.4851	
<b>Easting (SFT)</b>	1,209,115.7347	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	18.3448794
<b>Scale Factor</b>	1.000076430		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA STATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO EAST ALONG THE STATE LINE ON A GRAVEL ROAD 0.50 MILES TO WHERE THE POWER LINE CROSSES THE GRAVEL ROAD AND TURN LEFT ON THE POWER LINE RIGHT OF WAY AND GO 0.05 MILES TO A METAL GATE AND GO THROUGH THE GATE FOR ANOTHER 0.05 MILE TO THE STATION MARK ON THE LEFT, NORTHWEST 6.65 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700018A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH EAST CHAINLINK GATE POST	155	7.50	24.6
<b>MK # 2</b>	GUY	225	8.20	26.9
<b>MK # 3</b>	METAL POWER POLE WITH GUY	279	15.10	49.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    HOPE CORS, 700013A</p> <p><b>Ref Mon # 2</b>    IULM CORS</p> <p><b>Ref Mon # 3</b>    LROC CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700019	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070241
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	444,406.0109	
<b>Easting (M)</b>	366,933.9670	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,458,022.0541	
<b>Easting (SFT)</b>	1,203,849.1901	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	53.4105189
<b>Scale Factor</b>	1.000059966		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA STATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 3.95 MILES TO THE STATION MARK ON THE RIGHT, WEST 12.60 METERS OF A DIRT DRIVE AND EAST 34.1 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 24.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WATER WELL	169	9.30	30.5	700019A	
MK # 2					217 00 41	
MK # 3					217 12 34	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE CORS, 700013A	
Ref Mon # 2 IULM CORS	
Ref Mon # 3 LROC CORS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700019A	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070241
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	444,139.6509	
<b>Easting (M)</b>	366,731.7190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,457,148.1713	
<b>Easting (SFT)</b>	1,203,185.6481	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	57.7540520
<b>Scale Factor</b>	1.000060669		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	HOPE CORS, 700013A
<b>Ref Mon # 2</b>	IULM CORS
<b>Ref Mon # 3</b>	LROC CORS

  

Comments

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 33 3 50.7601980

**Longitude** 92 21 22.4119980

**Ellipsoid Height (M):** 33.482

**Geoid Height (M):** -26.067

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA STATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 3.75 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 14.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 3.55 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700020	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070241
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	447,609.2689	
<b>Easting (M)</b>	366,723.1550	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,468,531.4097	
<b>Easting (SFT)</b>	1,203,157.5510	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	58.1994587
<b>Scale Factor</b>	1.000051664		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	185	20.20	66.3
<b>MK # 2</b>	UNDER GROUND CABLE MARKER	13	20.70	67.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE CORS, 700013A	
<b>Ref Mon # 2</b> IULM CORS	
<b>Ref Mon # 3</b> LROC CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 5 43.3758768
<b>Longitude</b>	92 21 23.2078068
<b>Ellipsoid Height (M):</b>	27.391
<b>Geoid Height (M):</b>	-26.082

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 0.1 MILES TO THE STATION MARK ON THE LEFT, WEST 21.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700020 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700020A	<b>Date Monumented</b> 10/21/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 129	<b>Job Number:</b> 070241
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	446,970.4959	
<b>Easting (M)</b>	367,072.7020	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,466,435.7020	
<b>Easting (SFT)</b>	1,204,304.3565	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	50.6079045
<b>Scale Factor</b>	1.000053297		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND STATE HIGHWAY 275, SOUTH OF STRONG, GO SOUTH ON HIGHWAY 129 0.30 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST 7.80 METERS OF A DIRT TURN IN, SOUTHWEST 13.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPE CORS, 700013A</p> <p>Ref Mon # 2: IULM CORS</p> <p>Ref Mon # 3: LROC CORS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700021	<b>Date Monumented</b> 10/22/2003	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070241
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	449,422.3510	
<b>Easting (M)</b>	365,066.0870	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,474,479.8299	
<b>Easting (SFT)</b>	1,197,720.9871	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	12	34.1059789
<b>Scale Factor</b>	1.000047090		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	DROP INLET	18	3.25	10.7
<b>MK # 2</b>	VACUME CLEANER PEDESTAL	188	9.80	32.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPE CORS, 700013A	
<b>Ref Mon # 2</b> IULM CORS	
<b>Ref Mon # 3</b> LROC CORS	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 6 42.0329808
<b>Longitude</b>	92 22 27.3620280
<b>Ellipsoid Height (M):</b>	13.469
<b>Geoid Height (M):</b>	-26.094

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 82, SOUTH OF EL DORADO, GO EAST ON HIGHWAY 82 FOR 16.50 MILES TO THE STATION ON THE RIGHT IN FRONT OF A CAR WASH, EAST 113.20 METERS OF A CONC DRIVE TO STRONG CAR WASH, SOUTH 12.30 METERS OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700022	<b>Date Monumented</b> 10/20/2004	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 167	<b>Job Number:</b> 68,070280,070281,070373,07
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 475,030.1281		<b>Latitude</b> 33 20 31.0660440
<b>Easting (M)</b> 350,146.4280		<b>Longitude</b> 92 32 7.9545516
<b>Elevation (M)*</b> 34.055		<b>Ellipsoid Height (M):</b> 12.024
		<b>Geoid Height (M):</b> -26.162

  

<b>Northing (SFT)</b> 1,558,494.6786		
<b>Easting (SFT)</b> 1,148,772.0725		
<b>Elevation (SFT)*</b> 111.729		

  

<b>Convergence Angle</b> 0 17 59.0582072		
<b>Scale Factor</b> 0.999990966		
<b>Elevation Adjust. Factor</b> 0.9999946557		
<b>Combined Adjust. Factor</b> 0.9999856218		

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

**Location Description**

The station is near the south end of the highway 167 bridge over the Ouchita river north of Calion. 10.25 meters southeast of the center of Hwy-167 and 3.65 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "700022 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW corner of bridge	121	3.70	12.1
<b>MK # 2</b>	Chain link fence gate post	319	12.75	41.8
<b>MK # 3</b>	end of a 15in. Pipe	289	10.90	35.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CORS Hope	3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 111.8216'). Updated elevation by Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
<b>Ref Mon # 2</b> IULM	
<b>Ref Mon # 3</b> UAM AFRC SIS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700023	<b>Date Monumented</b> 10/27/2004	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 15	<b>Job Number:</b> 070273
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	455,722.5080	
<b>Easting (M)</b>	330,231.0960	
<b>Elevation (M)*</b>	58.393	
<b>Northing (SFT)</b>	1,495,149.5950	
<b>Easting (SFT)</b>	1,083,433.1875	
<b>Elevation (SFT)*</b>	191.579	

  

<b>Convergence Angle</b>	0	25	7.0501399
<b>Scale Factor</b>	1.000032217		
<b>Elevation Adjust. Factor</b>	0.9999908363		
<b>Combined Adjust. Factor</b>	1.0000230530		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	82	12.90	42.3
MK # 2	FENCE CORNER	336	6.65	21.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 IULM, SHRV	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.
Ref Mon # 2 CSAL	
Ref Mon # 3 DQUA	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 10 0.3255312
<b>Longitude</b>	92 44 52.6482348
<b>Ellipsoid Height (M):</b>	31.806
<b>Geoid Height (M):</b>	-26.186

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 15, SOUTH OF EL DORADO, GO SOUTH ON HIGHWAY 15 FOR 4.20 MILES TO THE STATION MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 11.45 METERS, EAST 17.6 METERS OF THE CENTERLINE OF HIGHWAY 335, AND SOUTH 5.8 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700023 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700024	<b>Date Monumented</b> 10/27/2004	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070273,070367
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,642.3860	
<b>Easting (M)</b>	335,400.5830	
<b>Elevation (M)*</b>	74.732	
<b>Northing (SFT)</b>	1,504,729.2281	
<b>Easting (SFT)</b>	1,100,393.4127	
<b>Elevation (SFT)*</b>	245.183	

  

<b>Convergence Angle</b>	0	23	15.8164684
<b>Scale Factor</b>	1.000025346		
<b>Elevation Adjust. Factor</b>	0.9999882722		
<b>Combined Adjust. Factor</b>	1.0000136179		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION MARK IS LOCATED AT THE NORTHEAST CORNER OF THE STATE HIGHWAY 82 OVERPASS OVER STATE HIGHWAY 15, WEST OF EL DORADO, SOUTHEAST 9.5 METERS OF THE CENTERLINE OF HIGHWAY 15 AND SOUTHEAST 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700024 2004" ON TOP OF A 1.22 METERE IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	288	1.90	6.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    IULM,SHRV Ref Mon # 2    CSAL Ref Mon # 3    DQUA	<b>Comments</b>  3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700024A	<b>Date Monumented</b> 10/27/2004	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070273
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,795.0340	
<b>Easting (M)</b>	335,086.3420	
<b>Elevation (M)*</b>	72.248	
<b>Northing (SFT)</b>	1,505,230.0407	
<b>Easting (SFT)</b>	1,099,362.4404	
<b>Elevation (SFT)*</b>	237.033	

  

<b>Convergence Angle</b>	0	23	22.6285760
<b>Scale Factor</b>	1.000025002		
<b>Elevation Adjust. Factor</b>	0.9999886621		
<b>Combined Adjust. Factor</b>	1.0000136638		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 82, WEST OF EL DORADO, GO WEST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK IN THE MEDIAN, 5.7 METERS SOUTHWEST OF THE EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, NORTHEAST 4.2 METERS OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "700024A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    IULM,SHRV</p> <p><b>Ref Mon # 2</b>    CSAL</p> <p><b>Ref Mon # 3</b>    DQUA</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700025	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Union	<b>Route</b> 167	<b>Job Number:</b> 001914,070280,070281,070371
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	468,792.6770	
<b>Easting (M)</b>	343,268.1270	
<b>Elevation (M)*</b>	51.967	
<b>Northing (SFT)</b>	1,538,030.6411	
<b>Easting (SFT)</b>	1,126,205.5133	
<b>Elevation (SFT)*</b>	170.496	

  

<b>Convergence Angle</b>	0	20	27.1294597
<b>Scale Factor</b>	1.000003280		
<b>Elevation Adjust. Factor</b>	0.9999918447		
<b>Combined Adjust. Factor</b>	0.9999951247		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of Hwy-167 and Hwy-7 northeast of ElDorado go north on Hwy-167 for 3.20 miles to the station on the right. 50.20 feet southeast of the center of Hwy-167, 15.10 feet northwest of a gravel drive and 1.65 feet northwest of a witness post. The station mark is a standard 2 1/2 inch cap stamped "700025 2005" set on top of an 5/8 inch by 4 foot long iron rod and is just below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southwest corner of porch	120	20.20	66.3
MK # 2	Water Meter	145	5.60	18.4
MK # 3				

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM, IULM,S 197,K 124	<p>Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, &amp; Y121 in June 2009 by crew S5105.</p>
Ref Mon # 2	700014,270005 070003,0700	
Ref Mon # 3	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700025A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Union	<b>Route</b> 167	<b>Job Number:</b> 001914,070280,070281,070371
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 469,300.0500		<b>Latitude</b> 33 17 23.9377092
<b>Easting (M)</b> 343,833.1590		<b>Longitude</b> 92 36 10.7928756
<b>Elevation (M)*</b> 59.399		<b>Ellipsoid Height (M):</b> 33.197
<b>Northing (SFT)</b> 1,539,695.2474		<b>Geoid Height (M):</b> -26.169
<b>Easting (SFT)</b> 1,128,059.2892		
<b>Elevation (SFT)*</b> 194.877		

  

<b>Convergence Angle</b> 0 20 14.9725555	<b>Scale Factor</b> 1.000002241
<b>Elevation Adjust. Factor</b> 0.9999906785	<b>Combined Adjust. Factor</b> 0.9999929195

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sign post "Kozy Kitchen"	112	11.90	39.0
MK # 2	SW corner of wooden building	59	30.10	98.8
MK # 3	Service pole	179	6.25	20.5

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, &amp; Y121 in June 2009 by crew S5105.</td> </tr> </table>	Comments	Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Comments			
Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700026	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Union	<b>Route</b> 167	<b>Job Number:</b> 001914,070280,070281,070371
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	471,727.5471	
<b>Easting (M)</b>	346,183.5200	
<b>Elevation (M)*</b>	51.615	
<b>Northing (SFT)</b>	1,547,659.4608	
<b>Easting (SFT)</b>	1,135,770.4319	
<b>Elevation (SFT)*</b>	169.341	

  

<b>Convergence Angle</b>	0	19	24.4282781
<b>Scale Factor</b>	0.999997368		
<b>Elevation Adjust. Factor</b>	0.9999919000		
<b>Combined Adjust. Factor</b>	0.9999892680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the junction of Hwy-167 and Hwy-335 northeast of El Dorado, go north on Hwy-167 for 0.45 miles to the station on the left. 48.4 feet northwest of the center of Hwy-167, 61 feet northeast of a gravel drive and 12.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "700026 2005" on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Concrete Right of Way marker	295	9.30	30.5
<b>MK # 2</b>	Power pole	238	26.20	86.0
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
<b>Ref Mon # 1</b>	ARCM, IULM,S 197,K 124	
<b>Ref Mon # 2</b>	700014,270005    070003,0700	
<b>Ref Mon # 3</b>	T 83 N 81 070005 LROC UAM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700026A	<b>Date Monumented</b> 9/20/2005	<b>Monumented By</b> AHTD	<b>County</b> Union	<b>Route</b> 167	<b>Job Number:</b> 001914,070280,070281,070371
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	472,302.0671	
<b>Easting (M)</b>	346,690.4690	
<b>Elevation (M)*</b>	60.520	
<b>Northing (SFT)</b>	1,549,544.3651	
<b>Easting (SFT)</b>	1,137,433.6470	
<b>Elevation (SFT)*</b>	198.555	

  

<b>Convergence Angle</b>	0	19	13.5291607
<b>Scale Factor</b>	0.999996237		
<b>Elevation Adjust. Factor</b>	0.9999905026		
<b>Combined Adjust. Factor</b>	0.9999867396		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast end of 18 inch CMP	190	8.10	26.6
MK # 2	Gas meter	005	19.60	64.3
MK # 3	Water meter	353	21.40	70.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, 1ULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102 on 10/03/05. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700027	<b>Date Monumented</b> 9/21/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070368
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,093.9439	
<b>Easting (M)</b>	337,401.0858	
<b>Elevation (M)*</b>	50.228	
<b>Northing (SFT)</b>	1,539,019.0476	
<b>Easting (SFT)</b>	1,106,956.7290	
<b>Elevation (SFT)*</b>	164.790	

  

<b>Convergence Angle</b>	0	22	34.0748331
<b>Scale Factor</b>	1.000002741		
<b>Elevation Adjust. Factor</b>	0.9999921176		
<b>Combined Adjust. Factor</b>	0.9999948586		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	HAND HELD, 33-17-16, 92-40-19  <div style="height: 100px; border: 1px solid black;"></div>

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 17 15.9477216
<b>Longitude</b>	92 40 19.3270764
<b>Ellipsoid Height (M):</b>	24.007
<b>Geoid Height (M):</b>	-26.267

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 167, NORTH OF EL DORADO, GO NORTH ON HIGHWAY 7 2.8 MILES TO MARK ON THE LEFT IN MEDIAN. NORTHEAST 36.7 FEET OF CENTERLINE SOUTH BOUND LANE, SOUTHWEST 27.2 FEET OF CENTERLINE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	700015A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700028	<b>Date Monumented</b> 9/21/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070368
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	466,427.1816	
<b>Easting (M)</b>	334,171.3230	
<b>Elevation (M)*</b>	69.695	
<b>Northing (SFT)</b>	1,530,269.8450	
<b>Easting (SFT)</b>	1,096,360.4155	
<b>Elevation (SFT)*</b>	228.656	

  

<b>Convergence Angle</b>	0	23	43.5374458
<b>Scale Factor</b>	1.000008293		
<b>Elevation Adjust. Factor</b>	0.9999890628		
<b>Combined Adjust. Factor</b>	0.9999973557		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	224	27.43	90.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HAND HELD,33-15-49 92-42-24
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700028A	<b>Date Monumented</b> 9/21/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 7	<b>Job Number:</b> 070368
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	466,910.7818				
<b>Easting (M)</b>	334,518.0298				
<b>Elevation (M)*</b>	65.685				
<b>Northing (SFT)</b>	1,531,856.4566				
<b>Easting (SFT)</b>	1,097,497.9028				
<b>Elevation (SFT)*</b>	215.500				

  

<b>Convergence Angle</b>	0	23	36.1119847
<b>Scale Factor</b>	1.000007276		
<b>Elevation Adjust. Factor</b>	0.9999896920		
<b>Combined Adjust. Factor</b>	0.9999969680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH 5 GUYS	38	30.72	100.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	HAND HELD, 33-16-05 92-42-10
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700029	<b>Date Monumented</b> 9/21/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> HOLLY R	<b>Job Number:</b> 070368
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	464,220.7891	
<b>Easting (M)</b>	332,333.2842	
<b>Elevation (M)*</b>	69.961	
<b>Northing (SFT)</b>	1,523,031.0389	
<b>Easting (SFT)</b>	1,090,330.1166	
<b>Elevation (SFT)*</b>	229.529	

  

<b>Convergence Angle</b>	0	24	22.9451052
<b>Scale Factor</b>	1.000013009		
<b>Elevation Adjust. Factor</b>	0.9999890210		
<b>Combined Adjust. Factor</b>	1.0000020299		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	309	11.00	36.1
<b>MK # 2</b>	METER POLE	101	27.09	88.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	HAND HELD,33-14-37 92-43-34     

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 14 36.6517104
<b>Longitude</b>	92 43 33.8457180
<b>Ellipsoid Height (M):</b>	43.724
<b>Geoid Height (M):</b>	-26.270

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 335 NORTH AND HIGHWAY 82, WEST, OF EL DORADO, GO NORTH ON HIGHWAY 335 2.65 MILES TO CROSS ROAD AND 4 WAY STOP, TURN RIGHT ON MT. HOLLY ROAD AND GO 0.2 MILES TO MARK ON THE LEFT. NORTH 20 FEET FROM THE CENTERLINE OF MT. HOLLY ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700029A	<b>Date Monumented</b> 9/21/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> HOLLY R	<b>Job Number:</b> 070368
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	464,391.8602	
<b>Easting (M)</b>	331,935.8912	
<b>Elevation (M)*</b>	73.247	
<b>Northing (SFT)</b>	1,523,592.2947	
<b>Easting (SFT)</b>	1,089,026.3364	
<b>Elevation (SFT)*</b>	240.311	

  

<b>Convergence Angle</b>	0	24	31.5627827
<b>Scale Factor</b>	1.000012648		
<b>Elevation Adjust. Factor</b>	0.9999885053		
<b>Combined Adjust. Factor</b>	1.0000011531		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	125	19.63	64.4
MK # 2	COMBINATION POLE WITH GUY AND LIGH	40	17.07	56.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HAND HELD,33-14-42 92-43-49
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700030	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070367
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	458,944.2528	
<b>Easting (M)</b>	340,472.8503	
<b>Elevation (M)*</b>	78.049	
<b>Northing (SFT)</b>	1,505,719.6027	
<b>Easting (SFT)</b>	1,117,034.6764	
<b>Elevation (SFT)*</b>	256.065	

  

<b>Convergence Angle</b>	0	21	26.2623015
<b>Scale Factor</b>	1.000024582		
<b>Elevation Adjust. Factor</b>	0.9999877518		
<b>Combined Adjust. Factor</b>	1.0000123335		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	317	13.71	45.0
MK # 2	SOUTHWEST CORNER OF ONE STORY BRICK BUILDING	55	20.24	66.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HAND HELD 33-11-47, 92-38-18
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700030A	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82B	<b>Job Number:</b> 070367
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	459,273.5619	
<b>Easting (M)</b>	340,032.1191	
<b>Elevation (M)*</b>	70.729	
<b>Northing (SFT)</b>	1,506,800.0110	
<b>Easting (SFT)</b>	1,115,588.7107	
<b>Elevation (SFT)*</b>	232.051	

  

<b>Convergence Angle</b>	0	21	35.8300726
<b>Scale Factor</b>	1.000023839		
<b>Elevation Adjust. Factor</b>	0.9999889004		
<b>Combined Adjust. Factor</b>	1.0000127391		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 0.10 MILES TO THE STATION MARK ON THE LEFT, 48.8 FEET NORTHWEST FROM CENTER OF CONCRETE DRIVEWAY AND 42.0 FEET SOUTHEAST FROM CENTER OF CONCRETE DRIVEWAY AND SOUTHWEST 24.00 FEET OF CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700030A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH LIGHT AND GU	227	3.35	11.0	
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>HAND HELD 33-11-58, 92-38-35</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700031	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82B	<b>Job Number:</b> 070367
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,221.7635	
<b>Easting (M)</b>	336,202.5942	
<b>Elevation (M)*</b>	79.969	
<b>Northing (SFT)</b>	1,509,910.9024	
<b>Easting (SFT)</b>	1,103,024.6778	
<b>Elevation (SFT)*</b>	262.366	

  

<b>Convergence Angle</b>	0	22	58.7158247
<b>Scale Factor</b>	1.000021751		
<b>Elevation Adjust. Factor</b>	0.9999874503		
<b>Combined Adjust. Factor</b>	1.0000092011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	283	8.83	29.0
MK # 2	CONCRETE CURB CORNER	343	5.70	18.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-12-28, 92-41-03</td> </tr> </table>	Comments	HAND HELD 33-12-28, 92-41-03
Comments			
HAND HELD 33-12-28, 92-41-03			

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 12 27.7170084
<b>Longitude</b>	92 41 3.3531648
<b>Ellipsoid Height (M):</b>	53.718
<b>Geoid Height (M):</b>	-26.267

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 2.7 MILES TO THE STATION MARK ON THE RIGHT, 24.0 FEET WEST FROM CENTER OF CONCRETE DRIVEWAY AND 31.7 FEET NORTH FROM CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	700031A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700031A	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82B	<b>Job Number:</b> 070367
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,210.8626	
<b>Easting (M)</b>	335,686.0081	
<b>Elevation (M)*</b>	76.050	
<b>Northing (SFT)</b>	1,509,875.1384	
<b>Easting (SFT)</b>	1,101,329.8449	
<b>Elevation (SFT)*</b>	249.507	

  

<b>Convergence Angle</b>	0	23	9.8777618
<b>Scale Factor</b>	1.000021784		
<b>Elevation Adjust. Factor</b>	0.9999880654		
<b>Combined Adjust. Factor</b>	1.0000098492		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 3.0 MILES TO THE STATION MARK ON THE LEFT, 14.2 FEET EAST FROM CENTERLINE OF CONCRETE DRIVEWAY 87.8 FEET WEST OF THE CENTER OF A CONCRETE DRIVE AND 40.2 FEET SOUTH FROM CENTERLINE OF HIGHWAY 82B AND NORTH 18.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>HAND HELD 33-12-27, 92-41-23</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700032	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070367
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,397.3692	
<b>Easting (M)</b>	326,877.7611	
<b>Elevation (M)*</b>	65.034	
<b>Northing (SFT)</b>	1,510,487.0355	
<b>Easting (SFT)</b>	1,072,431.4545	
<b>Elevation (SFT)*</b>	213.365	

  

<b>Convergence Angle</b>	0	26	20.2550356
<b>Scale Factor</b>	1.000021507		
<b>Elevation Adjust. Factor</b>	0.9999897942		
<b>Combined Adjust. Factor</b>	1.0000113009		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	54	5.85	19.2
MK # 2	FENCE CORNER	323	27.73	91.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HAND HELD 33-12-32, 92-47-29
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 12 31.2458112
<b>Longitude</b>	92 47 3.4435068
<b>Ellipsoid Height (M):</b>	38.748
<b>Geoid Height (M):</b>	-26.281

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 8.5 MILES TO THE STATION MARK ON THE RIGHT, 49.0 FEET NORTH FROM CENTERLINE OF HIGHWAY 82 AND SOUTH 70.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	700032A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700032A	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070367
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,421.0890	
<b>Easting (M)</b>	326,231.5621	
<b>Elevation (M)*</b>	64.455	
<b>Northing (SFT)</b>	1,510,564.8562	
<b>Easting (SFT)</b>	1,070,311.3833	
<b>Elevation (SFT)*</b>	211.465	

  

<b>Convergence Angle</b>	0	26	34.2235423
<b>Scale Factor</b>	1.000021465		
<b>Elevation Adjust. Factor</b>	0.9999898851		
<b>Combined Adjust. Factor</b>	1.0000113499		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	AHTD RIGHT OF WAY MARKER	83	27.13	89.0
<b>MK # 2</b>	COMBINATION POLE	282	22.77	74.7
<b>MK # 3</b>	SOUTHWEST CORNER OF ONE STORY BRICK HOUSE	5	29.57	97.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-12-32, 92-47-29</td> </tr> </table>	Comments	HAND HELD 33-12-32, 92-47-29
Comments			
HAND HELD 33-12-32, 92-47-29			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 8.95 MILES TO THE STATION MARK ON THE RIGHT, 27.9 FEET NORTH FROM EDGE OF PAVEMENT OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700032A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700033	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070367
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	461,272.3931	
<b>Easting (M)</b>	321,956.2846	
<b>Elevation (M)*</b>	73.109	
<b>Northing (SFT)</b>	1,513,357.8430	
<b>Easting (SFT)</b>	1,056,284.9104	
<b>Elevation (SFT)*</b>	239.857	

  

<b>Convergence Angle</b>	0	28	6.7638063
<b>Scale Factor</b>	1.000019637		
<b>Elevation Adjust. Factor</b>	0.9999885270		
<b>Combined Adjust. Factor</b>	1.0000081638		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	11	6.86	22.5
<b>MK # 2</b>	FIRE HYDRANT	303	31.70	104.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 335 NORTH, WEST OF EL DORADO GO WEST ON 82 6.0 MILES TO THE STATION MARK ON THE RIGHT, 177 FEET EAST OF LYNN FITE ROAD, NORTH 6.3 FEET FROM EDGE OF PAVEMENT OF HIGHWAY 82 AND SOUTH 22.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	700033A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700033A	<b>Date Monumented</b> 9/22/2011	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070367
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	461,346.4024		
<b>Easting (M)</b>	321,435.1749		
<b>Elevation (M)*</b>	79.446		
<b>Northing (SFT)</b>	1,513,600.6552		
<b>Easting (SFT)</b>	1,054,575.2363		
<b>Elevation (SFT)*</b>	260.648		

  

<b>Convergence Angle</b>	0	28	18.0392440
<b>Scale Factor</b>	1.000019482		
<b>Elevation Adjust. Factor</b>	0.9999875325		
<b>Combined Adjust. Factor</b>	1.0000070143		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	38	7.99	26.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700034	<b>Date Monumented</b> 8/30/2017	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 335	<b>Job Number:</b> 070380
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	472,981.0115	0.0020	
<b>Easting (M)</b>	340,362.4080	0.0020	
<b>Elevation (M)*</b>	38.729		
<b>Northing (SFT)</b>	1,551,771.8686		
<b>Easting (SFT)</b>	1,116,672.3336		
<b>Elevation (SFT)*</b>	127.062		

  

<b>Convergence Angle</b>	0	21	30.5463612
<b>Scale Factor</b>	0.999994989		
<b>Elevation Adjust. Factor</b>	0.9999939223		
<b>Combined Adjust. Factor</b>	0.9999889113		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	4	8.38	27.5
MK # 2	CENTER OF GATE	171	19.20	63.0
MK # 3	POWER POLE	163	21.03	69.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARMO	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP, LTEC	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 12B	
<b>Latitude</b>	33 19 22.7309484
<b>Longitude</b>	92 38 25.8206820
<b>Ellipsoid Height (M):</b>	12.463
<b>Geoid Height (M):</b>	-26.265

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO THE MARK ON THE RIGHT, NORTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND ACROSS THE ROAD FROM A GATED DIRT ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700034A	<b>Date Monumented</b> 8/30/2017	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 335	<b>Job Number:</b> 070380
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	472,539.8121 0.0020
<b>Easting (M)</b>	340,369.1952 0.0020
<b>Elevation (M)*</b>	37.648

  

<b>Northing (SFT)</b>	1,550,324.3669	
<b>Easting (SFT)</b>	1,116,694.6013	
<b>Elevation (SFT)*</b>	123.517	

  

<b>Convergence Angle</b>	0	21	30.3397648
<b>Scale Factor</b>	0.999995846		
<b>Elevation Adjust. Factor</b>	0.9999940919		
<b>Combined Adjust. Factor</b>	0.9999899379		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO A GATED DIRT ROAD ON THE LEFT, TURN LEFT AND GO 1433 FEET TO THE MARK ON THE RIGHT. WEST 22.5 FEET OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCED GAS VALVE VENT	162	22.25	73.0
<b>MK # 2</b>	POWER POLE	145	24.38	80.0
<b>MK # 3</b>	POWER POLE W/GUY	343	19.51	64.0

  

<b>AZ Mark Station</b>	700034
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARMO <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> ARHP, LTEC	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700035	<b>Date Monumented</b> 10/19/2017	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070459
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	449,425.4224	0.0030			
<b>Easting (M)</b>	365,368.7545	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,474,489.9067				
<b>Easting (SFT)</b>	1,198,713.9887				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	12	27.5726994
<b>Scale Factor</b>	1.000047079		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END CONC CULVERT	89	13.11	43.0
<b>MK # 2</b>	TELEPHONE BOX AND POWER POLE	45	23.16	76.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCM	GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
<b>Ref Mon # 2</b> ARMO	
<b>Ref Mon # 3</b> IULM	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33    6    42.1684344
<b>Longitude</b>	92    22    15.6890100
<b>Ellipsoid Height (M):</b>	15.535    0.0060
<b>Geoid Height (M):</b>	-26.195    0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 129S AND STATE HIGHWAY 275N, IN STRONG, GO WEST ON HIGHWAY 82 0.85 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 22.5'. THE MARK IS A STANDARD 2" CAP STAMPED "2017 700035" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 700035A	<b>Date Monumented</b> 10/19/2017	<b>Monumented By</b> AHTD	<b>County</b> UNION	<b>Route</b> 82	<b>Job Number:</b> 070459
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	449,439.5629	0.0030	
<b>Easting (M)</b>	365,877.0543	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,474,536.2993		
<b>Easting (SFT)</b>	1,200,381.6356		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	12	16.6013927
<b>Scale Factor</b>	1.000047039		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	264	11.88	39.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARCM"/>	GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 <input type="text" value="ARMO"/>	
Ref Mon # 3 <input type="text" value="IULM"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 12B
<b>Latitude</b>	33 6 42.6867660
<b>Longitude</b>	92 21 56.0865636
<b>Ellipsoid Height (M):</b>	9.772 0.0060
<b>Geoid Height (M):</b>	-26.193 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 129S AND STATE HIGHWAY 275N, IN STRONG, GO WEST ON HIGHWAY 82 0.55 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 35' AND WEST OF THE C/L OF NORTH HICKORY STREET 116'. THE MARK IS A STANDARD 2" CAP STAMPED "2017 700035A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
710001 RESET	8/30/2002	AHTD	VAN BUREN	65	080229, R80065

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	117,376.2781	
<b>Easting (M)</b>	364,600.0240	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	385,092.0057	
<b>Easting (SFT)</b>	1,196,191.9121	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	36.2901756
<b>Scale Factor</b>	0.999941610		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	344	9.20	30.2
MK # 2	CROSS TIE GATE POST	312	2.34	7.7
MK # 3	CROSS TIE BRACE POST	254	1.28	4.2

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HEBEPOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PJTC CAMPUS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LITTLE ROCK</td> </tr> </table>	Ref Mon # 1	HEBEPOR	Ref Mon # 2	PJTC CAMPUS	Ref Mon # 3	AHTD LITTLE ROCK	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	HEBEPOR						
Ref Mon # 2	PJTC CAMPUS						
Ref Mon # 3	AHTD LITTLE ROCK						

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 23 26.5409484

**Longitude** 92 23 22.8035724

**Ellipsoid Height (M):** 173.178

**Geoid Height (M):** -27.821

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 124 EAST LOCATED ABOUT 1.50 MILES NORTH OF DAMASCUS, GO NORTH ON U.S. HIGHWAY 65 FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 24.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 11.25 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, AND 1.10 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "710001 RESET 2002" SET ON TOP OF AN IRON ROD 0.57 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710002	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> RX0021
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	151,295.2379	
<b>Easting (M)</b>	353,385.0970	
<b>Elevation (M)*</b>	389.112	
<b>Northing (SFT)</b>	496,374.4597	
<b>Easting (SFT)</b>	1,159,397.6057	
<b>Elevation (SFT)*</b>	1,276.612	

  

<b>Convergence Angle</b>	0	17	58.9830971
<b>Scale Factor</b>	0.999937830		
<b>Elevation Adjust. Factor</b>	0.9999389394		
<b>Combined Adjust. Factor</b>	0.9998767732		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST SIGN POST "ANTIQUE WAREH OUSE"	130	32.57	106.9
<b>MK # 2</b>	SOUTHEAST CORNER OF METAL BUILDING	78	13.78	45.2
<b>MK # 3</b>	SOUTHEAST END OF METAL PIPE UNDER H HWY 110	318	34.20	112.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-4 ON JOB NO. RX0021 ELEVATION = 387.299 METERS.
<b>Ref Mon # 2</b> EVANS AZ	
<b>Ref Mon # 3</b> 640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710002A	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> RX0021
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	150,772.5380		
<b>Easting (M)</b>	353,781.9590		
<b>Elevation (M)*</b>	404.794		
<b>Northing (SFT)</b>	494,659.5684		
<b>Easting (SFT)</b>	1,160,699.6438		
<b>Elevation (SFT)*</b>	1,328.062		

  

<b>Convergence Angle</b>	0	17	49.7344531
<b>Scale Factor</b>	0.999937674		
<b>Elevation Adjust. Factor</b>	0.9999364787		
<b>Combined Adjust. Factor</b>	0.9998741566		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	129	35.50	116.5
<b>MK # 2</b>	NORTH CORNER OF A HEADWALL	179	30.21	99.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-3 ON JOB RX0021 ELEVATION = 391.135 METERS.
<b>Ref Mon # 2</b> EVANS AZ	
<b>Ref Mon # 3</b> 640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710003	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 21,08_2,080468,Mobile LiDA
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	157,360.0705
<b>Easting (M)</b>	352,766.0447
<b>Elevation (M)*</b>	438.165
<b>Northing (SFT)</b>	516,272.1646
<b>Easting (SFT)</b>	1,157,366.5983
<b>Elevation (SFT)*</b>	1,437.545

  

<b>Convergence Angle</b>	0 18 14.0564664
<b>Scale Factor</b>	0.999940136
<b>Elevation Adjust. Factor</b>	0.9999312424
<b>Combined Adjust. Factor</b>	0.9998713825

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	45	2.1862548
<b>Longitude</b>	92	31	20.1493596
<b>Ellipsoid Height:</b>	409.006		
<b>Grid Northing (Meters)</b>	157,360.4579		
<b>Grid Easting (Meters)</b>	352,766.0120		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	28	5.58	18.3
MK # 2	TELEPHONE JUNCTION BOX	357	20.40	66.9
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 VERONA	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 45 2.1736908
<b>Longitude</b>	92 31 20.1479736
<b>Ellipsoid Height (M):</b>	410.383
<b>Geoid Height (M):</b>	-27.781

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO SOUTHERLY ON HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST-NORTHEAST OF THE CENTER OF HWY-65 AND 3.38 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	710003A
<b>Geodetic Azimuth</b>	346 37 52.09189
<b>Grid Azimuth</b>	346 56 06.14353

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710003A	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 21,08_2,080468,Mobile LiDA
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	157,861.0865	
<b>Easting (M)</b>	352,649.7764	
<b>Elevation (M)*</b>	459.474	
<b>Northing (SFT)</b>	517,915.9146	
<b>Easting (SFT)</b>	1,156,985.1414	
<b>Elevation (SFT)*</b>	1,507.456	

  

<b>Convergence Angle</b>	0	18	16.8111895
<b>Scale Factor</b>	0.999940367		
<b>Elevation Adjust. Factor</b>	0.9999278988		
<b>Combined Adjust. Factor</b>	0.9998682701		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	45	18.4226436
<b>Longitude</b>	92	31	24.8832840
<b>Ellipsoid Height:</b>	430.246		
<b>Grid Northing (Meters)</b>	157,861.4690		
<b>Grid Easting (Meters)</b>	352,649.7460		

  

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO SOUTHERLY ON HWY-65 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT. 31.30 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.94 METERS EAST-NORTHEAST OF THE CENTER OF HWY-65 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST END OF CONCRETE CULVERT	329	28.07	92.1	
MK # 2	NORTHWEST END OF METAL DRAIN PIPE	168	30.48	100.0	
MK # 3	WOODEN FENCE POST	344	1.45	4.8	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	VERONA	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	EVANS AZ	
Ref Mon # 3	640001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710004	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> RX0021
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	160,502.1240	
<b>Easting (M)</b>	352,159.3580	
<b>Elevation (M)*</b>	438.247	
<b>Northing (SFT)</b>	526,580.7185	
<b>Easting (SFT)</b>	1,155,376.1604	
<b>Elevation (SFT)*</b>	1,437.815	

  

<b>Convergence Angle</b>	0	18	28.4996941
<b>Scale Factor</b>	0.999941686		
<b>Elevation Adjust. Factor</b>	0.9999312295		
<b>Combined Adjust. Factor</b>	0.9998729195		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END OF METAL DRAIN PIPE	165	4.30	14.1
<b>MK # 2</b>	SIGN ON METAL POLE	316	9.15	30.0
<b>MK # 3</b>	POWER POLE	332	15.50	50.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> VERONA <b>Ref Mon # 2</b> EVANS AZ <b>Ref Mon # 3</b> 640001	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 44.0192532
<b>Longitude</b>	92 31 44.9688180
<b>Ellipsoid Height (M):</b>	409.656
<b>Geoid Height (M):</b>	-28.591

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.74 KM. (1.70 MI.) TO THE STATION ON THE RIGHT JUST BEFORE DROPPING OFF OF A STEEP HILL. 15.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65, 11.0 METERS WEST-NORTHWEST OF THE CENTER OF A PAVED DRIVEWAY TO THE "DENNARD COUNTRY STORE" AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	710004A
<b>Geodetic Azimuth</b>	144 35 46.84604
<b>Grid Azimuth</b>	144 54 15.35717

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710004A	<b>Date Monumented</b> 10/29/1996	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> RX0021
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	160,206.9220	
<b>Easting (M)</b>	352,366.7970	
<b>Elevation (M)*</b>	437.660	
<b>Northing (SFT)</b>	525,612.2099	
<b>Easting (SFT)</b>	1,156,056.7332	
<b>Elevation (SFT)*</b>	1,435.890	

  

<b>Convergence Angle</b>	0	18	23.6566869
<b>Scale Factor</b>	0.999941531		
<b>Elevation Adjust. Factor</b>	0.9999313216		
<b>Combined Adjust. Factor</b>	0.9998728566		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF METAL DRAIN PIPE	183	8.69	28.5
MK # 2	SOUTHEAST END OF METAL DRAIN PIPE UNDER DRAINAGE DITCH	321	36.55	119.9
MK # 3	WOODEN FENCE CORNER POST	143	8.57	28.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    VERONA Ref Mon # 2    EVANS AZ Ref Mon # 3    640001	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 46 34.4769132
<b>Longitude</b>	92 31 36.6460572
<b>Ellipsoid Height (M):</b>	409.071
<b>Geoid Height (M):</b>	-28.589

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.41 KM. (1.50 MI.) TO THE STATION ON THE RIGHT. 14.35 METERS NORTHEAST OF THE CENTER OF HWY-65, 11.90 METERS NORTH-NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.77 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	710004
<b>Geodetic Azimuth</b>	324 35 51.71185
<b>Grid Azimuth</b>	324 54 15.35717

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710005	<b>Date Monumented</b> 10/23/2000	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 330	<b>Job Number:</b> 080143,Mobile LiDAR-CLS
--------------------------	--------------------------------------	------------------------------	----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	132,598.7650	
<b>Easting (M)</b>	360,042.0626	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	435,034.4482	
<b>Easting (SFT)</b>	1,181,238.0004	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	22.9618243
<b>Scale Factor</b>	0.999936419		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	50	2.75	9.0
<b>MK # 2</b>	WEST END OF A CMP	122	8.30	27.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> TRI COUNTY <b>Ref Mon # 2</b> HEBEPORT <b>Ref Mon # 3</b> PJTC CAMPUS	Mark was found Disturbed in December 2009 by crew S5105.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710005A	<b>Date Monumented</b> 10/23/2000	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 9	<b>Job Number:</b> 0143, Mobile LiDAR-CLS, 0804
---------------------------	--------------------------------------	------------------------------	----------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	132,499.0798	
<b>Easting (M)</b>	359,640.9394	
<b>Elevation (M)*</b>	169.958	
<b>Northing (SFT)</b>	434,707.3976	
<b>Easting (SFT)</b>	1,179,921.9820	
<b>Elevation (SFT)*</b>	557.604	

  

<b>Convergence Angle</b>	0	15	32.2165705
<b>Scale Factor</b>	0.999936435		
<b>Elevation Adjust. Factor</b>	0.9999733287		
<b>Combined Adjust. Factor</b>	0.9999097654		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 9 AND STATE HIGHWAY 330, LOCATED IN CHOCTAW, GO WEST ON STATE HIGHWAY 9 FOR 0.33 KM (0.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 9 AND 0.36 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710005A 2000" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 413.363 METER.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    TRI COUNTY</p> <p><b>Ref Mon # 2</b>    HEBEPORT</p> <p><b>Ref Mon # 3</b>    PJTC CAMPUS</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 &amp; 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710006	<b>Date Monumented</b> 8/30/2002	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 92	<b>Job Number:</b> 80253, 080363, 080423, FSX00
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 123,489.3008		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 363,303.4629		<b>Latitude</b> 35 26 44.7342648
<b>Elevation (M)*</b> 216.696		<b>Longitude</b> 92 24 15.1766100
<b>Northing (SFT)</b> 405,147.8144		<b>Ellipsoid Height (M):</b> 188.827
<b>Easting (SFT)</b> 1,191,938.1112		<b>Geoid Height (M):</b> -27.812
<b>Elevation (SFT)*</b> 710.942		

  

<b>Convergence Angle</b> 0 14 6.7660005	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 92 IN BEE BRANCH GO WEST ON STATE HIGHWAY 92 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 92 AND 0.87 METERS SOUTHEAST OF A WITNESS POST SET IN A BARB WIRE FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "710006 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999938841	
<b>Elevation Adjust. Factor</b> 0.9999659946	
<b>Combined Adjust. Factor</b> 0.9999048376	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FENCE POST	265	1.35	4.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 PJTC CAMPUS	3 Wire Levels were ran by crew S5105 in Dec. 09 from 2nd order NGS mark H 210.
Ref Mon # 2 HEBEPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710006A	<b>Date Monumented</b> 8/30/2002	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 92	<b>Job Number:</b> 080253
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	123,076.8401	
<b>Easting (M)</b>	363,037.7080	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	403,794.5996	
<b>Easting (SFT)</b>	1,191,066.2137	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	12.8588251
<b>Scale Factor</b>	0.999939000		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	197	8.30	27.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 PJTC CAMPUS	Mark was found Disturbed in December 2009 by crew S5105.
Ref Mon # 2 HEBEPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710007	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 0283, Mobile LiDAR-CLS, 0804
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	135,612.8611
<b>Easting (M)</b>	359,229.8100
<b>Elevation (M)*</b>	231.809
<b>Northing (SFT)</b>	444,923.1951
<b>Easting (SFT)</b>	1,178,573.1350
<b>Elevation (SFT)*</b>	760.527

  

<b>Convergence Angle</b>	0 15 42.0412150
<b>Scale Factor</b>	0.999936066
<b>Elevation Adjust. Factor</b>	0.9999636229
<b>Combined Adjust. Factor</b>	0.9998996913

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 336 SOUTH OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 17.9 METERS WEST OF THE CENTER OF HIGHWAY 65, 26.95 METERS NORTH OF A DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710007 2004" SET ON TOP OF AN IRON ROD 0.90 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A HEADWALL	22	11.20	36.7
MK # 2	CONCRETE RIGHT OF WAY MARKER	194	15.40	50.5
MK # 3				

  

Area Reference Monuments (used for Processing)	
Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	LROC C.O.R.S.

  

Comments
OLD ELEV. (231.8270m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710007A	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 0283, Mobile LiDAR-CLS, 0804
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	136,077.9990
<b>Easting (M)</b>	359,241.9110
<b>Elevation (M)*</b>	239.339
<b>Northing (SFT)</b>	446,449.2351
<b>Easting (SFT)</b>	1,178,612.8363
<b>Elevation (SFT)*</b>	785.231

  

<b>Convergence Angle</b>	0 15 41.8106845
<b>Scale Factor</b>	0.999936031
<b>Elevation Adjust. Factor</b>	0.9999624413
<b>Combined Adjust. Factor</b>	0.9998984748

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 336 SOUTH OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.10 MILES TO THE STATION ON THE LEFT. 19.3 METERS NORTH OF A PAVED DRIVE, 19.6 METERS EAST OF THE CENTER OF HIGHWAY 65, 15.0 METERS SOUTH OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710007A 2004 " SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW CORNER OF WOODEN BUILDING	21	23.45	76.9
<b>MK # 2</b>	TELEPHONE RISER BOX	132	1.20	3.9
<b>MK # 3</b>	WATER METER	11	11.70	38.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> BUTLER <b>Ref Mon # 3</b> LROC C.O.R.S.	<b>Comments</b> 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710008	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 3,08_2,080468,Mobile LiDAF
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	139,979.2270	
<b>Easting (M)</b>	358,720.3710	
<b>Elevation (M)*</b>	155.147	
<b>Northing (SFT)</b>	459,248.5139	
<b>Easting (SFT)</b>	1,176,901.7505	
<b>Elevation (SFT)*</b>	509.011	

  

<b>Convergence Angle</b>	0	15	54.2789713
<b>Scale Factor</b>	0.999935950		
<b>Elevation Adjust. Factor</b>	0.9999756530		
<b>Combined Adjust. Factor</b>	0.9999116046		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 65B ON THE SOUTH SIDE OF CLINTON, GO NORTH ON HIGHWAY 65 FOR 0.30 MILES TO THE STATION ON THE LEFT. 11.3 METERS SOUTH OF THE CENTER OF HIGHWAY 65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710008 2004 " SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 RUSSPORT	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.1478m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.</p>
Ref Mon # 2 BUTLER	
Ref Mon # 3 LROC C.O.R.S.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710008A	<b>Date Monumented</b> 10/12/2004	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 0283,080468,Mobile LiDAR-C
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	140,316.1681	
<b>Easting (M)</b>	358,404.4750	
<b>Elevation (M)*</b>	155.667	
<b>Northing (SFT)</b>	460,353.9615	
<b>Easting (SFT)</b>	1,175,865.3484	
<b>Elevation (SFT)*</b>	510.718	

  

<b>Convergence Angle</b>	0	16	1.6178824
<b>Scale Factor</b>	0.999935961		
<b>Elevation Adjust. Factor</b>	0.9999755713		
<b>Combined Adjust. Factor</b>	0.9999115339		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER BOX	251	3.45	11.3
<b>MK # 2</b>	NORTHEAST END OF BILLBOARD	162	23.80	78.1
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.671m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.
<b>Ref Mon # 2</b> BUTLER	
<b>Ref Mon # 3</b> LROC C.O.R.S.	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 35 50.0480916
<b>Longitude</b>	92 27 32.5508220
<b>Ellipsoid Height (M):</b>	127.828
<b>Geoid Height (M):</b>	-27.843

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 65B ON THE SOUTH SIDE OF CLINTON, GO NORTH ON HIGHWAY 65 FOR 0.70 MILES TO THE STATION ON THE LEFT. 11.80 METERS SOUTHWEST OF THE CENTER OF HIGHWAY 65 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710008A 2004 " SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710010	<b>Date Monumented</b> 6/3/2010	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> 080391
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	119,103.2231	
<b>Easting (M)</b>	364,431.5700	
<b>Elevation (M)*</b>	205.759	
<b>Northing (SFT)</b>	390,757.8245	
<b>Easting (SFT)</b>	1,195,639.2426	
<b>Elevation (SFT)*</b>	675.062	

  

<b>Convergence Angle</b>	0	13	40.3329007
<b>Scale Factor</b>	0.999940734		
<b>Elevation Adjust. Factor</b>	0.9999677107		
<b>Combined Adjust. Factor</b>	0.9999084466		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST CORNER OF CHURCH SIGN	36	28.35	93.0
<b>MK # 2</b>	EAST END OF FENCE ALONG DRIVE	155	27.43	90.0
<b>MK # 3</b>	CORNER OF E/W & N/S FENCE	222	24.08	79.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> ARBT	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   24   22.5574524
<b>Longitude</b>	92   23   29.7510396
<b>Ellipsoid Height (M):</b>	177.932
<b>Geoid Height (M):</b>	-27.815

Location Description
<p>TO REACH THE STATION FROM JCT. US HWY 124 &amp; 65, GO NORTH ON US HWY 65 1.2 MILES TO THE STATION ON THE LEFT. LOCATED IN THE S/E CORNER OF A BAPTIST CHURCH PARKING LOT. 175 FEET S/E OF S/E CORNER OF THE MAIN STEP OF THE CHURCH. 1 1/2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710010 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710010A	<b>Date Monumented</b> 6/3/2010	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> *	<b>Job Number:</b> 080391
---------------------------	------------------------------------	------------------------------	----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	119,220.3601	
<b>Easting (M)</b>	363,921.2780	
<b>Elevation (M)*</b>	206.007	
<b>Northing (SFT)</b>	391,142.1314	
<b>Easting (SFT)</b>	1,193,965.0596	
<b>Elevation (SFT)*</b>	675.875	

  

<b>Convergence Angle</b>	0	13	52.1127968
<b>Scale Factor</b>	0.999940678		
<b>Elevation Adjust. Factor</b>	0.9999676718		
<b>Combined Adjust. Factor</b>	0.9999083517		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	66	34.44	113.0
<b>MK # 2</b>	EAST END OF 8" METAL CULVERT	323	11.03	36.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.
<b>Ref Mon # 2</b> ARLR	
<b>Ref Mon # 3</b> ARHR	

  

<b>AZ Mark Station</b>	710010
<b>Geodetic Azimuth</b>	102 41 49
<b>Grid Azimuth</b>	102 55 42

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710011	<b>Date Monumented</b> 6/3/2010	<b>Monumented By</b> AHTD	<b>County</b> VAN BIREN	<b>Route</b> 65	<b>Job Number:</b> 0391,Mobie LiDAR-CLS,0804
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 127,880.2151		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 361,199.4480		<b>Latitude</b> 35 29 6.9267624
<b>Elevation (M)*</b> 303.589		<b>Longitude</b> 92 25 39.3650400
<b>Northing (SFT)</b> 419,553.6724		<b>Ellipsoid Height (M):</b> 275.780
<b>Easting (SFT)</b> 1,185,035.1890		<b>Geoid Height (M):</b> -27.830
<b>Elevation (SFT)*</b> 996.024		

  

<b>Convergence Angle</b> 0 14 55.7551745	<b>Location Description</b>  TO REACH THE STATION FROM JCT. US HWY 65 & US HWY 92, GO NORTH ON US HWY 65 3.0 MILES TO THE STATION ON THE LEFT. 91 FEET NORTH OF A GRAVEL DRIVEWAY. 76 FEET WEST OF C/L OF US HWY 65. 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710011 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.
<b>Scale Factor</b> 0.999937420	
<b>Elevation Adjust. Factor</b> 0.9999523593	
<b>Combined Adjust. Factor</b> 0.9998897823	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				710011A
MK # 2				167 16 13
MK # 3				167 31 09

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	OLD ELEV. (303.6090m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710011A	<b>Date Monumented</b> 6/3/2010	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> Mobie LiDAR-CLS,080363,0
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	127,455.8081	
<b>Easting (M)</b>	361,293.3880	
<b>Elevation (M)*</b>	314.480	
<b>Northing (SFT)</b>	418,161.2637	
<b>Easting (SFT)</b>	1,185,343.3905	
<b>Elevation (SFT)*</b>	1,031.758	

  

<b>Convergence Angle</b>	0	14	53.5440449
<b>Scale Factor</b>	0.999937537		
<b>Elevation Adjust. Factor</b>	0.9999506502		
<b>Combined Adjust. Factor</b>	0.9998881903		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION FROM JCT. US HWY 65 & US HWY 92, GO NORTH ON US HWY 65 2.7 MILES TO THE STATION ON THE LEFT. 93 FEET WEST OF C/L US HWY 65. 72 FEET SOUTH OF GRAVEL DRIVE. 1.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710011A 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	145	17.07	56.0
MK # 2	N/S & E/W FENCE CORNER	219	26.85	88.1
MK # 3	SOUTH END OF AN 18" CULVERT	343	18.59	61.0

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARBT	OLD ELEV. (314.4900m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.
Ref Mon # 2	ARLR	
Ref Mon # 3	ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710012	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	143,257.1870	
<b>Easting (M)</b>	358,577.2315	
<b>Elevation (M)*</b>	274.896	
<b>Northing (SFT)</b>	470,002.9543	
<b>Easting (SFT)</b>	1,176,432.1337	
<b>Elevation (SFT)*</b>	901.888	

  

<b>Convergence Angle</b>	0	15	57.9398684
<b>Scale Factor</b>	0.999936172		
<b>Elevation Adjust. Factor</b>	0.9999568617		
<b>Combined Adjust. Factor</b>	0.9998930365		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	349	22.19	72.8
MK # 2	COMBINATION POLE	346	18.68	61.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710012A	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	143,842.8039	
<b>Easting (M)</b>	358,579.4590	
<b>Elevation (M)*</b>	304.869	
<b>Northing (SFT)</b>	471,924.2658	
<b>Easting (SFT)</b>	1,176,439.4417	
<b>Elevation (SFT)*</b>	1,000.224	

  

<b>Convergence Angle</b>	0	15	57.9512517
<b>Scale Factor</b>	0.999936240		
<b>Elevation Adjust. Factor</b>	0.9999521584		
<b>Combined Adjust. Factor</b>	0.9998884015		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE BOX	50	9.14	30.0
<b>MK # 2</b>	GAS METER	15	19.57	64.2
<b>MK # 3</b>	LIGHT POLE	136	17.49	57.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Comments			
ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 1.75 MILES TO MARK ON THE RIGHT, NORTH 83.0 FEET OF THE CENTER OF ASPHALT DRIVE , SOUTH 84.0 FEET OF THE CENTER OF ASPHALT DRIVE , EAST 6.0 FEET OF THE EDGE OF HIGHWAY 65 PAVEMENT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710012A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710013	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CI
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	146,425.1213
<b>Easting (M)</b>	358,400.2680
<b>Elevation (M)*</b>	393.832
<b>Northing (SFT)</b>	480,396.4188
<b>Easting (SFT)</b>	1,175,851.5459
<b>Elevation (SFT)*</b>	1,292.097

  

<b>Convergence Angle</b>	0	16	2.3740682
<b>Scale Factor</b>	0.999936638		
<b>Elevation Adjust. Factor</b>	0.9999381987		
<b>Combined Adjust. Factor</b>	0.9998748407		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 2 GUY WIRES	14	18.65	61.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710013A	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 146,823.7388		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 358,063.6043		<b>Latitude</b> 35 39 21.1549212
<b>Elevation (M)*</b> 397.822		<b>Longitude</b> 92 27 47.3091768
<b>Northing (SFT)</b> 481,704.2164		<b>Ellipsoid Height (M):</b> 370.054
<b>Easting (SFT)</b> 1,174,747.0084		<b>Geoid Height (M):</b> -27.786
<b>Elevation (SFT)*</b> 1,305.187		

  

<b>Convergence Angle</b> 0 16 10.2057562	<b>Location Description</b>
<b>Scale Factor</b> 0.999936714	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 3.75 MILES TO MARK ON THE RIGHT, NORTHEAST 10.0 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND SOUTHWEST 18.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710013A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999375727	
<b>Combined Adjust. Factor</b> 0.9998742906	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	710013
			Meters	Feet		
MK # 1					<b>Geodetic Azimuth</b>	
MK # 2					<b>Grid Azimuth</b>	
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710014	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CI
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 148,760.0591		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 356,018.6211		<b>Latitude</b> 35 40 23.6646876
<b>Elevation (M)*</b> 429.537		<b>Longitude</b> 92 29 8.9922696
<b>Northing (SFT)</b> 488,056.9606		<b>Ellipsoid Height (M):</b> 401.754
<b>Easting (SFT)</b> 1,168,037.7594		<b>Geoid Height (M):</b> -27.781
<b>Elevation (SFT)*</b> 1,409.240		

  

<b>Convergence Angle</b> 0 16 57.7370766	<b>Location Description</b>
<b>Scale Factor</b> 0.999937137	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 5.5 MILES TO MARK ON THE RIGHT, SOUTHEAST 89.0 FEET OF THE CENTER OF ASPHALT DRIVEWAY, NORTHEAST 41.6 FEET OF THE CENTERLINE OF HIGHWAY 65 AND SOUTHWEST 9.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999325962	
<b>Combined Adjust. Factor</b> 0.9998697374	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE WITH GUY	340	12.80	42.0	710014A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710014A	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 96		
<b>Northing (M)</b> 149,184.0516		<b>Latitude</b> 35 40 37.3717272
<b>Easting (M)</b> 355,703.7772		<b>Longitude</b> 92 29 21.5961468
<b>Elevation (M)*</b> 423.808		<b>Ellipsoid Height (M):</b> 396.025
		<b>Geoid Height (M):</b> -27.780

  

<b>Northing (SFT)</b> 489,448.0093		<b>Location Description</b>
<b>Easting (SFT)</b> 1,167,004.8090		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 5.9 MILES TO MARK ON THE RIGHT, NORTHWEST 56.2 FEET OF THE CENTER OF ASPHALT DRIVEWAY, NORTHEAST 30.7 FEET OF THE CENTERLINE OF HIGHWAY 65. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710014A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation (SFT)*</b> 1,390.442		

  

<b>Convergence Angle</b> 0 17 5.0712618	
<b>Scale Factor</b> 0.999937242	
<b>Elevation Adjust. Factor</b> 0.9999334952	
<b>Combined Adjust. Factor</b> 0.9998707414	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	63	27.13	89.0
MK # 2	NORTHWEST CORNER OF WOOD STORAGE BUILDING	73	25.09	82.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710015	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 150,858.3432		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 353,724.7701		<b>Latitude</b> 35 41 31.3724076
<b>Elevation (M)*</b> 399.949		<b>Longitude</b> 92 30 40.6427328
<b>Northing (SFT)</b> 494,941.0810		<b>Ellipsoid Height (M):</b> 372.177
<b>Easting (SFT)</b> 1,160,512.0166		<b>Geoid Height (M):</b> -27.788
<b>Elevation (SFT)*</b> 1,312.167		

  

<b>Convergence Angle</b> 0 17 51.0684012	<b>Location Description</b>  TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 7.7 MILES TO MARK ON THE RIGHT, NORTHEAST 25.0 FEET OF THE CENTERLINE OF HIGHWAY 65 AND SOUTHWEST 26.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710015 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Scale Factor</b> 0.999937699	
<b>Elevation Adjust. Factor</b> 0.9999372388	
<b>Combined Adjust. Factor</b> 0.9998749417	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CENTER OF HEADWALL	92	3.35	11.0	710015A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710015A	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 151,310.4748		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 353,342.4437		<b>Latitude</b> 35 41 45.9783312
<b>Elevation (M)*</b> 388.681		<b>Longitude</b> 92 30 55.9440252
<b>Northing (SFT)</b> 496,424.4494		<b>Ellipsoid Height (M):</b> 360.900
<b>Easting (SFT)</b> 1,159,257.6674		<b>Geoid Height (M):</b> -27.790
<b>Elevation (SFT)*</b> 1,275.197		

  

<b>Convergence Angle</b> 0 17 59.9722100	<b>Location Description</b>
<b>Scale Factor</b> 0.999937834	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 8.0 MILES TO MARK ON THE LEFT. SOUTHWEST 19.0 FEET OF THE EDGE OF HIGHWAY 65 PAVEMENT AND NORTHEAST 14.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710015A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999390070	
<b>Combined Adjust. Factor</b> 0.9998768448	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	305	16.15	53.0
MK # 2	TELEPHONE BOX	312	17.89	58.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710016	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CL
--------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	153,683.7313	
<b>Easting (M)</b>	352,931.3696	
<b>Elevation (M)*</b>	418.593	
<b>Northing (SFT)</b>	504,210.7084	
<b>Easting (SFT)</b>	1,157,909.0018	
<b>Elevation (SFT)*</b>	1,373.333	

  

<b>Convergence Angle</b>	0	18	9.7773076
<b>Scale Factor</b>	0.999938629		
<b>Elevation Adjust. Factor</b>	0.9999343134		
<b>Combined Adjust. Factor</b>	0.9998729465		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 9.6 MILES TO MARK ON THE LEFT. WEST 40.0 FEET OF THE CENTERLINE HIGHWAY 65 AND EAST 23.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710016 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH 2 GUYS	301	15.85	52.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" &amp; "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710016A	<b>Date Monumented</b> 2/21/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 65	<b>Job Number:</b> §_2,080468,Mobile LiDAR-CI
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 154,080.6094		<b>Geoid Datum:</b> Geoid 96
<b>Easting (M)</b> 352,720.9860		<b>Latitude</b> 35 43 15.7560960
<b>Elevation (M)*</b> 433.857		<b>Longitude</b> 92 31 21.2487096
<b>Northing (SFT)</b> 505,512.7993		<b>Ellipsoid Height (M):</b> 406.100
<b>Easting (SFT)</b> 1,157,218.7682		<b>Geoid Height (M):</b> -27.788
<b>Elevation (SFT)*</b> 1,423.413		

  

<b>Convergence Angle</b> 0 18 14.6969837	<b>Scale Factor</b> 0.999938775
<b>Elevation Adjust. Factor</b> 0.9999319183	<b>Combined Adjust. Factor</b> 0.9998706975

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH 3 GUYS	167	15.60	51.2
<b>MK # 2</b>	TELEPHONE BOX	160	20.60	67.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710017	<b>Date Monumented</b> 2/24/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 124	<b>Job Number:</b> 080445
--------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,280.5212	
<b>Easting (M)</b>	374,049.2090	
<b>Elevation (M)*</b>	170.520	
<b>Northing (SFT)</b>	381,497.0100	
<b>Easting (SFT)</b>	1,227,193.1132	
<b>Elevation (SFT)*</b>	559.447	

  

<b>Convergence Angle</b>	0	9	58.3290010
<b>Scale Factor</b>	0.999942185		
<b>Elevation Adjust. Factor</b>	0.9999732406		
<b>Combined Adjust. Factor</b>	0.9999154272		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END GATE POST	268	7.41	24.3
MK # 2	END OF FENCE	170	13.72	45.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARBT</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHR	Ref Mon # 3	ARBT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.</td> </tr> </table>	Comments	ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARHR								
Ref Mon # 3	ARBT								
Comments									
ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.									

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25, 107 AND 124, WEST OF QUITMAN, GO WEST ON HIGHWAY 124 3.75 MILES TO THE MARK ON THE LEFT, 15 FEET SOUTH OF A ASPHALT DRIVE AND SOUTHWEST 32 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710017 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710017A	<b>Date Monumented</b> 2/24/2012	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 124	<b>Job Number:</b> 080445
---------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	116,050.0758				
<b>Easting (M)</b>	374,485.0341				
<b>Elevation (M)*</b>	185.481				
<b>Northing (SFT)</b>	380,740.9570				
<b>Easting (SFT)</b>	1,228,622.9827				
<b>Elevation (SFT)*</b>	608.534				

  

<b>Convergence Angle</b>	0	9	48.2653922
<b>Scale Factor</b>	0.999942313		
<b>Elevation Adjust. Factor</b>	0.9999708928		
<b>Combined Adjust. Factor</b>	0.9999132074		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	24	19.08	62.6
MK # 2	WATER METER	357	6.55	21.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARBT	ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35 22 44.5985472
<b>Longitude</b>	92 16 50.9404944
<b>Ellipsoid Height (M):</b>	157.765
<b>Geoid Height (M):</b>	-27.730

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25, 107 AND 124, WEST OF QUITMAN, GO WEST ON HIGHWAY 124 3.45 MILES TO THE MARK ON THE RIGHT, 46 FEET EAST OF A DRIVE AND NORTH 39.9 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710017A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710018	<b>Date Monumented</b> 10/14/2013	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 92	<b>Job Number:</b> FSX005
--------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	128,987.7518	0.0040	
<b>Easting (M)</b>	371,856.2471	0.0040	
<b>Elevation (M)*</b>	221.478		
<b>Northing (SFT)</b>	423,187.3157		
<b>Easting (SFT)</b>	1,219,998.3707		
<b>Elevation (SFT)*</b>	726.634		

  

<b>Convergence Angle</b>	0	10	49.8132514
<b>Scale Factor</b>	0.999937126		
<b>Elevation Adjust. Factor</b>	0.9999652440		
<b>Combined Adjust. Factor</b>	0.9999023722		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	75	11.28	37.0
MK # 2	FENCE CORNER	293	39.01	128.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARHR	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY +0.012'.
Ref Mon # 2    ARBT	
Ref Mon # 3    ARLR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 96
<b>Latitude</b>	35    29    44.1607812
<b>Longitude</b>	92    18    36.7111620
<b>Ellipsoid Height (M):</b>	193.806    0.0083
<b>Geoid Height (M):</b>	-27.672    0.0040

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 3.8 MILES TO THE MARK ON THE LEFT, SOUTH 65 FEET OF THE CENTER LINE OF BOONE LANE, NORTHWEST 83 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 38 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710018A	<b>Date Monumented</b> 10/14/2013	<b>Monumented By</b> AHTD	<b>County</b> VAN BUREN	<b>Route</b> 92	<b>Job Number:</b> FSX005
---------------------------	--------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	129,038.9771	0.0040	
<b>Easting (M)</b>	372,691.0046	0.0040	
<b>Elevation (M)*</b>	222.160		
<b>Northing (SFT)</b>	423,355.3774		
<b>Easting (SFT)</b>	1,222,737.0709		
<b>Elevation (SFT)*</b>	728.869		

  

<b>Convergence Angle</b>	0	10	30.5432096
<b>Scale Factor</b>	0.999937113		
<b>Elevation Adjust. Factor</b>	0.9999651371		
<b>Combined Adjust. Factor</b>	0.9999022523		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST GATE POST	169	5.97	19.6
MK # 2	UNDERGROUND CABLE MARKER	220	7.71	25.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR Ref Mon # 2    ARBT Ref Mon # 3    ARLR	<b>Comments</b>  ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY -0.008'.
---	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 4.3 MILES TO THE MARK ON THE RIGHT, WEST 11 FEET OF THE CENTER LINE OF AN ASPHALT DRIVE, SOUTH 19 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 19 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	710018
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710019	<b>Date Monumented</b> 5/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> 92	<b>Job Number:</b> 080612
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	122,667.3412	0.0020			
<b>Easting (M)</b>	361,135.4835	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	402,451.1019				
<b>Easting (SFT)</b>	1,184,825.3321				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	14	56.7086688
<b>Scale Factor</b>	0.999939164		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	356	14.39	47.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARHR"/>	
Ref Mon # 2 <input type="text" value="ARJB"/>	
Ref Mon # 3 <input type="text" value="ARLR"/>	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid12B		
<b>Latitude</b>	35	26	17.7650808
<b>Longitude</b>	92	25	41.0036304
<b>Ellipsoid Height (M):</b>	172.047	0.0140	
<b>Geoid Height (M):</b>	-27.937	0.0140	

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO THE MARK ON RIGHT, NORTH 46.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710019A	<b>Date Monumented</b> 5/28/2019	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> CR 27	<b>Job Number:</b> 080612
---------------------------	-------------------------------------	-------------------------------	----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	123,024.4381	0.0030			
<b>Easting (M)</b>	361,150.5284	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	403,622.6773				
<b>Easting (SFT)</b>	1,184,874.6919				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	14	56.3973530
<b>Scale Factor</b>	0.999939023		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	85	12.68	41.6
<b>MK # 2</b>	POWER POLE	191	15.67	51.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHR	
<b>Ref Mon # 2</b> ARJB	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	35 26 29.3546796
<b>Longitude</b>	92 25 40.4686308
<b>Ellipsoid Height (M):</b>	185.247 0.0140
<b>Geoid Height (M):</b>	-27.932 0.0140

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO N BRICKY RD (CR27), TURN RIGHT (NORTH) AND GO 0.2 MILES TO THE MARK ON LEFT, WEST 10.8' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710020	<b>Date Monumented</b> 4/27/2020	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> 16	<b>Job Number:</b> 080614
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	140,674.3566	0.0040	
<b>Easting (M)</b>	361,624.6872	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	461,529.1183		
<b>Easting (SFT)</b>	1,186,430.3279		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	14	47.2086214
<b>Scale Factor</b>	0.999935976		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TB	112	2.80	9.2
MK # 2	W END OF CUS	330	6.40	21.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 36 2.1390120
<b>Longitude</b>	92 25 24.6776952
<b>Ellipsoid Height (M):</b>	153.845 0.0160
<b>Geoid Height (M):</b>	-27.903 0.0160

Location Description
<p>TO REACH STA FROM JCT OF US-65 &amp; SR-16E IN CLINTON, GO EAST ON SR-16 2.1 MI TO STA ON RIGHT. 50' SOUTH OF C/L SR-16. 17.4 WEST OF A DW. STA IS A STANDARD 2½" CAP STAMPED "710020 2020" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710020A	<b>Date Monumented</b> 4/27/2020	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> 16	<b>Job Number:</b> 080614
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	140,980.6599	0.0040	
<b>Easting (M)</b>	361,917.2980	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	462,534.0484		
<b>Easting (SFT)</b>	1,187,390.3352		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	14	40.4739890
<b>Scale Factor</b>	0.999935991		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PP/GY	64	4.90	16.1
<b>MK # 2</b>	BRACE POST	336	8.70	28.5
<b>MK # 3</b>	TB	252	30.50	100.1

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

  

**Vertical Determined By:**

**Elevation Datum:**

**Geoid Datum:**  Geoid 18

**Latitude**  35  36  12.1187304

**Longitude**  92  25  13.1041560

**Ellipsoid Height (M):**  126.536  0.0160

**Geoid Height (M):**  -27.895  0.0160

  

**Location Description**

TO REACH STA FROM JCT OF US-65 & SR-16E IN CLINTON, GO EAST ON SR-16 2.4 MI TO STA ON LEFT. 29' NORTH OF C/L SR-16. STA IS A STANDARD 2½" CAP STAMPED "710020A 2020" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710021	<b>Date Monumented</b> 5/19/2020	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> 95	<b>Job Number:</b> 08X193
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	137,973.2528	0.0020			
<b>Easting (M)</b>	353,977.5988	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	452,667.2469				
<b>Easting (SFT)</b>	1,161,341.5054				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	17	43.6786987
<b>Scale Factor</b>	0.999935946		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT OF US-65B &amp; SR-95 IN CLINTON, GO S ON SR-95 3.3 MILES TO STATION ON RIGHT. 37.5' W OF C/L SR-95. 66.7' W OF A DRIVEWAY. 27.3' E OF A FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "710021 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	710021A
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARM3, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 710021A	<b>Date Monumented</b> 5/19/2020	<b>Monumented By</b> ARDOT	<b>County</b> VAN BUREN	<b>Route</b> 95	<b>Job Number:</b> 08X193
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 18		
<b>Northing (M)</b>	138,121.9430	<b>Latitude</b>
<b>Easting (M)</b>	354,213.4903	<b>Longitude</b>
<b>Elevation (M)*</b>		<b>Ellipsoid Height (M):</b>
<b>Northing (SFT)</b>	453,155.0747	<b>Geoid Height (M):</b>
<b>Easting (SFT)</b>	1,162,115.4261	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	17	38.2444552
<b>Scale Factor</b>	0.999935943		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	221	3.81	12.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARM3, ARRV

TO REACH THE STATION MARK FROM THE JCT OF US-65B & SR-95 IN CLINTON, GO S ON SR-95 3.1 MILES TO STATION ON RIGHT. 36' N OF C/L SR-95. 8.3' E OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710021A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720010A	<b>Date Monumented</b> 6/28/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397, 040411, R40081
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	183,039.5419				
<b>Easting (M)</b>	186,773.3170				
<b>Elevation (M)*</b>	363.614				
<b>Northing (SFT)</b>	600,522.2304				
<b>Easting (SFT)</b>	612,772.1242				
<b>Elevation (SFT)*</b>	1,192.956				

  

<b>Convergence Angle</b>	-1	22	32.2410206
<b>Scale Factor</b>	0.999957394		
<b>Elevation Adjust. Factor</b>	0.9999429404		
<b>Combined Adjust. Factor</b>	0.9999003368		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 6.115 KM (3.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 23.50 METERS EAST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.</p>			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	77	10.85	35.6
<b>MK # 2</b>	WOODEN FENCE POST	268	26.60	87.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> GAYLOR <b>Ref Mon # 2</b> ENES <b>Ref Mon # 3</b> OKMU	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720011	<b>Date Monumented</b> 11/9/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 40151
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	206,955.3909				
<b>Easting (M)</b>	221,492.7460				
<b>Elevation (M)*</b>	411.495				
<b>Northing (SFT)</b>	678,986.1450				
<b>Easting (SFT)</b>	726,680.7842				
<b>Elevation (SFT)*</b>	1,350.047				

  

<b>Convergence Angle</b>	-1	9	17.3065861
<b>Scale Factor</b>	0.999990351		
<b>Elevation Adjust. Factor</b>	0.9999354272		
<b>Combined Adjust. Factor</b>	0.9999257788		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	10" CORNER POST	350	24.10	79.1
<b>MK # 2</b>	10" CORNER POST	5	23.90	78.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HINDSVILLE NO. 2	
<b>Ref Mon # 2</b> 440001	
<b>Ref Mon # 3</b> PRICE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 57.0322128
<b>Longitude</b>	93 59 4.3767240
<b>Ellipsoid Height (M):</b>	382.969
<b>Geoid Height (M):</b>	-28.558

Location Description
<p>FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.174 KM (0.73 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.07 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.65 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720011A	<b>Date Monumented</b> 11/9/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 40151
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	206,877.1790	
<b>Easting (M)</b>	222,017.3320	
<b>Elevation (M)*</b>	406.942	
<b>Northing (SFT)</b>	678,729.5448	
<b>Easting (SFT)</b>	728,401.8634	
<b>Elevation (SFT)*</b>	1,335.109	

  

<b>Convergence Angle</b>	-1	9	5.0560472
<b>Scale Factor</b>	0.999990241		
<b>Elevation Adjust. Factor</b>	0.9999361416		
<b>Combined Adjust. Factor</b>	0.9999263832		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	1	23.58	77.4
<b>MK # 2</b>	FENCE BRACE POST	283	25.67	84.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PRICE	
<b>Ref Mon # 2</b> HINDSVILLE NO. 2	
<b>Ref Mon # 3</b> 440001	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 54.8377428
<b>Longitude</b>	93 58 43.3240392
<b>Ellipsoid Height (M):</b>	378.384
<b>Geoid Height (M):</b>	-28.558

  

Location Description
<p>FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.705 KM (1.06 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.42 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.75 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720012	<b>Date Monumented</b> 11/9/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 040151
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,232.5220	
<b>Easting (M)</b>	226,634.9200	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	676,614.5326	
<b>Easting (SFT)</b>	743,551.4000	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	17.2505890
<b>Scale Factor</b>	0.999989338		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST	270	16.61	54.5
<b>MK # 2</b>	COMBINATION POLE	175	27.00	88.6
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> PRICE	
<b>Ref Mon # 2</b> HINDSVILLE NO. 2	
<b>Ref Mon # 3</b> 440001	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 36.8979960
<b>Longitude</b>	93 55 38.0591832
<b>Ellipsoid Height (M):</b>	393.048
<b>Geoid Height (M):</b>	-27.933

Location Description
<p>FROM THE JCT. OF HWY. 412 AND HWY. 303 IN THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 0.77 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A GRAVELED PULL-OFF AREA. THE STATION IS 15.18 METERS NORTH OF THE CENTERLINE OF HWY. 412, 20.55 METERS EAST OF A PRIVATE DRIVEWAY AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720012A	<b>Date Monumented</b> 11/9/1994	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 040151
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,200.4720	
<b>Easting (M)</b>	227,128.7380	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	676,509.3819	
<b>Easting (SFT)</b>	745,171.5346	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	7	5.7391295
<b>Scale Factor</b>	0.999989301		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	289	33.60	110.2
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 PRICE	
Ref Mon # 2 HINDSVILLE NO. 2	
Ref Mon # 3 440001	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 36.1714908
<b>Longitude</b>	93 55 18.2766144
<b>Ellipsoid Height (M):</b>	385.249
<b>Geoid Height (M):</b>	-27.931

Location Description
<p>FROM THE JCT. OF HWY. 412 AND HWY. 303 SOUTH OF THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.255 KM (0.78 MILES) TO THE STATION ON THE LEFT ON AN ELEVATED BANK ABOUT 1.50 METERS HIGHER THAN THE ROAD SURFACE. THE STATION IS 14.66 METERS NORTH OF THE CENTERLINE OF HWY. 412 AND 0.87 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	720012
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720013	<b>Date Monumented</b> 6/13/1995	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 4999
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	192,878.6839				
<b>Easting (M)</b>	208,299.9820				
<b>Elevation (M)*</b>	367.702				
<b>Northing (SFT)</b>	632,802.8154				
<b>Easting (SFT)</b>	683,397.5243				
<b>Elevation (SFT)*</b>	1,206.369				

  

<b>Convergence Angle</b>	-1	14	17.3807046
<b>Scale Factor</b>	0.999969351		
<b>Elevation Adjust. Factor</b>	0.9999422989		
<b>Combined Adjust. Factor</b>	0.9999116517		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TRAFFIC SIGNAL BOX	3	5.85	19.2
<b>MK # 2</b>	COMBINATION POLE	264	24.75	81.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SPRINGDALE 1935	
<b>Ref Mon # 2</b> PRICE 1940	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 11.4829632
<b>Longitude</b>	94 7 40.0573704
<b>Ellipsoid Height (M):</b>	339.175
<b>Geoid Height (M):</b>	-28.527

Location Description
<p>FROM THE JCT. OF HWY. 16 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WEST ON HWY. 16 FOR 0.06 KM (0.04 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.9 METERS SOUTH OF THE CENTER OF HWY. 16, 20.5 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.4 METERS NORTHEAST OF A FRAME HOUSE AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720013A	<b>Date Monumented</b> 6/13/1995	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 4999
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NGVD 29
<b>Northing (M)</b> 193,051.3210		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 208,926.5910		<b>Latitude</b> 36 3 17.5214808
<b>Elevation (M)*</b> 367.126		<b>Longitude</b> 94 7 15.1752972
<b>Northing (SFT)</b> 633,369.2090		<b>Ellipsoid Height (M):</b> 338.602
<b>Easting (SFT)</b> 685,453.3240		<b>Geoid Height (M):</b> -28.524
<b>Elevation (SFT)*</b> 1,204.479		

  

<b>Convergence Angle</b> -1 14 2.9018479	<b>Location Description</b>  FROM THE JCT. OF HWY. 16 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO EAST ON HWY. 265 FOR 0.57 KM (0.36 MILES) TO THE STATION ON THE LEFT IN FRONT OF A BRICK AND METAL BUILDING. THE STATION IS 11.7 METERS NORTH OF THE CENTER OF HWY. 16, 9.0 METERS EAST OF THE CENTER OF A CONCRETE DRIVEWAY AND 0.635 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999969591	
<b>Elevation Adjust. Factor</b> 0.9999423893	
<b>Combined Adjust. Factor</b> 0.9999119820	

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	70	20.70	67.9
MK # 2	16" METAL CROSS DRAIN	225	5.30	17.4
MK # 3	CENTER OF WATER METER COVER	260	19.85	65.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 SPRINGDALE 1935	
Ref Mon # 2 PRICE 1940	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720014	<b>Date Monumented</b> 6/13/1995	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 45	<b>Job Number:</b> 040440, 040474, 4999
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,686.8219	
<b>Easting (M)</b>	209,297.1350	
<b>Elevation (M)*</b>	436.069	
<b>Northing (SFT)</b>	645,296.6815	
<b>Easting (SFT)</b>	686,669.0171	
<b>Elevation (SFT)*</b>	1,430.670	

  

<b>Convergence Angle</b>	-1	13	56.1062725
<b>Scale Factor</b>	0.999974455		
<b>Elevation Adjust. Factor</b>	0.9999315712		
<b>Combined Adjust. Factor</b>	0.9999060280		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH NTHE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 45, EAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 45 0.24 MILES TO THE STATION MARK ON THE RIGHT, 11.10 METERS SOUTH OF THE CENTERLINE OF HIGHWAY 45 AND 8.10 METERS WEST OF THE CENTERLINE OF HUNTERS RIDGE ROAD, AND 2.82 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720014 1995" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSJH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	164	3.00	9.8
MK # 2	8" WATER VALVE COVER	228	15.24	50.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    A 309</p> <p>Ref Mon # 3    ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation was converted from NGVD29 to NAVD88 by MSK using CORPSCON on Oct 20,2005. NGVD29 Elev=435.9110 Meters. 3-Wire Levels ran from NGS BM H 27 by crew S5101 on 12-5-06 on job 040474.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720014A	<b>Date Monumented</b> 6/13/1995	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 45	<b>Job Number:</b> 4999
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	196,641.7729				
<b>Easting (M)</b>	208,804.6160				
<b>Elevation (M)*</b>	429.827				
<b>Northing (SFT)</b>	645,148.8833				
<b>Easting (SFT)</b>	685,053.1443				
<b>Elevation (SFT)*</b>	1,410.191				

  

<b>Convergence Angle</b>	-1	14	7.5370494
<b>Scale Factor</b>	0.999974378		
<b>Elevation Adjust. Factor</b>	0.9999325507		
<b>Combined Adjust. Factor</b>	0.9999069304		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	91	16.65	54.6
<b>MK # 2</b>	COMBINATION POLE	271	25.90	85.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SPRINGDALE 1935	
<b>Ref Mon # 2</b> PRICE 1940	
<b>Ref Mon # 3</b> NONE	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 5 13.9011504
<b>Longitude</b>	94 7 23.1409416
<b>Ellipsoid Height (M):</b>	401.302
<b>Geoid Height (M):</b>	-28.525

Location Description
<p>FROM THE JCT. OF HWY. 45 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WESTERLY ON HWY. 45 FOR 0.096 KM (0.06 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.4 METERS SOUTH OF THE CENTER OF HWY. 45 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720015	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	187,441.1950	
<b>Easting (M)</b>	175,417.7030	
<b>Elevation (M)*</b>	355.684	
<b>Northing (SFT)</b>	614,963.3206	
<b>Easting (SFT)</b>	575,516.2473	
<b>Elevation (SFT)*</b>	1,166.940	

  

<b>Convergence Angle</b>	-1	26	58.4540892
<b>Scale Factor</b>	0.999961848		
<b>Elevation Adjust. Factor</b>	0.9999441847		
<b>Combined Adjust. Factor</b>	0.9999060348		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	165	18.48	60.6
<b>MK # 2</b>	USGS BENCHMARK "7 SEM 1969"	220	29.64	97.2
<b>MK # 3</b>	WOODEN FENCE POST	352	12.35	40.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SILOPORT	ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.
<b>Ref Mon # 2</b> SPRINGDALE	
<b>Ref Mon # 3</b> 720009	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 59 50.0884296
<b>Longitude</b>	94 29 27.9702852
<b>Ellipsoid Height (M):</b>	326.884
<b>Geoid Height (M):</b>	-28.805

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 59 IN THE SMALL TOWN OF SUMMERS ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 2.09 KM. (1.30 MI.) TO THE STATION ON THE RIGHT. 74.8 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.98 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.82 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720015 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720015A	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	186,924.7809				
<b>Easting (M)</b>	175,374.6540				
<b>Elevation (M)*</b>	354.852				
<b>Northing (SFT)</b>	613,269.0520				
<b>Easting (SFT)</b>	575,375.0107				
<b>Elevation (SFT)*</b>	1,164.210				

  

<b>Convergence Angle</b>	-1	26	59.1503984
<b>Scale Factor</b>	0.999961266		
<b>Elevation Adjust. Factor</b>	0.9999443153		
<b>Combined Adjust. Factor</b>	0.9999055834		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	118	28.50	93.5
<b>MK # 2</b>	RAILROAD CROSS TIE GATE POST	180	18.00	59.0
<b>MK # 3</b>	0.61 METER ELM	353	30.52	100.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SILOPORT	ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.
<b>Ref Mon # 2</b> SPRINGDALE	
<b>Ref Mon # 3</b> 720009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720016	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	191,564.1990				
<b>Easting (M)</b>	173,884.2680				
<b>Elevation (M)*</b>	325.072				
<b>Northing (SFT)</b>	628,490.2096				
<b>Easting (SFT)</b>	570,485.3026				
<b>Elevation (SFT)*</b>	1,066.507				

  

<b>Convergence Angle</b>	-1	27	36.5109758
<b>Scale Factor</b>	0.999966675		
<b>Elevation Adjust. Factor</b>	0.9999489882		
<b>Combined Adjust. Factor</b>	0.9999156649		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	152	15.38	50.5
MK # 2	USGS BENCH MARK "6 SEM 1969"	280	30.48	100.0
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SILOPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>SPRINGDALE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>720009</td> </tr> </table>	Ref Mon # 1	SILOPORT	Ref Mon # 2	SPRINGDALE	Ref Mon # 3	720009	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.
Ref Mon # 1	SILOPORT								
Ref Mon # 2	SPRINGDALE								
Ref Mon # 3	720009								
Comments									
ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.									

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.4KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.84 KM. (4.25 MI.) TO THE SOUTH EDGE OF THE SMALL TOWN OF CINCINNATI AND THE STATION ON THE RIGHT AND THE CINCINNATI UNITED METHODIST CHURCH ON THE LEFT. 11.47 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.73 METERS WEST-SOUTHWEST OF A WITNESS POST SET NEAR A WEB WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 2.5550052
<b>Longitude</b>	94 30 33.3714600
<b>Ellipsoid Height (M):</b>	296.134
<b>Geoid Height (M):</b>	-28.783

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720016A	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	191,138.7949				
<b>Easting (M)</b>	174,102.3040				
<b>Elevation (M)*</b>	332.559				
<b>Northing (SFT)</b>	627,094.5296				
<b>Easting (SFT)</b>	571,200.6424				
<b>Elevation (SFT)*</b>	1,091.071				

  

<b>Convergence Angle</b>	-1	27	31.1927716
<b>Scale Factor</b>	0.999966160		
<b>Elevation Adjust. Factor</b>	0.9999478134		
<b>Combined Adjust. Factor</b>	0.9999139751		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KM. SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.36 KM. (3.95 MI.) TO THE STATION ON THE RIGHT NEAR THE NORTHWEST CORNER OF A CEMETERY. 109 METERS NORTH-NORTHWEST OF THE CENTER OF COUNTY ROAD #9, 18.65 METERS NORTHWEST OF OF THE CEMETERY ENTRANCE, 12.98 METERS NORTHEAST OF THE CENTER OF HWY-59 AND 0.52 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER FENCE POST	138	15.19	49.8
<b>MK # 2</b>	WOODEN FENCE POST	242	25.74	84.4
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	SILOPORT	<p>ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.</p>
<b>Ref Mon # 2</b>	SPRINGDALE	
<b>Ref Mon # 3</b>	720009	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720017	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	195,234.6069				
<b>Easting (M)</b>	171,764.1060				
<b>Elevation (M)*</b>	357.091				
<b>Northing (SFT)</b>	640,532.2061				
<b>Easting (SFT)</b>	563,529.4044				
<b>Elevation (SFT)*</b>	1,171.556				

  

<b>Convergence Angle</b>	-1	28	27.9719966
<b>Scale Factor</b>	0.999971295		
<b>Elevation Adjust. Factor</b>	0.9999439639		
<b>Combined Adjust. Factor</b>	0.9999152605		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRON PIPE GATE POST	355	14.35	47.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOPORT	
<b>Ref Mon # 2</b> SPRINGDALE	
<b>Ref Mon # 3</b> 720009	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NGVD 29		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	3	59.8414716
<b>Longitude</b>	94	32	1.8077856
<b>Ellipsoid Height (M):</b>	328.312		
<b>Geoid Height (M):</b>	-28.779		

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.96 KM. (8.05 MI.) TO THE STATION ON THE LEFT. 16.48 METERS SOUTH OF A FIELD ENTRANCE, 11.15 METERS EAST OF THE CENTER OF HWY-59 AND 0.55 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720017A	<b>Date Monumented</b> 7/23/1996	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 001742
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	195,837.3509				
<b>Easting (M)</b>	171,795.3070				
<b>Elevation (M)*</b>	355.372				
<b>Northing (SFT)</b>	642,509.7087				
<b>Easting (SFT)</b>	563,631.7697				
<b>Elevation (SFT)*</b>	1,165.916				

  

<b>Convergence Angle</b>	-1	28	27.6073148
<b>Scale Factor</b>	0.999972097		
<b>Elevation Adjust. Factor</b>	0.9999442337		
<b>Combined Adjust. Factor</b>	0.9999163322		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER POST	185	38.84	127.4
<b>MK # 2</b>	WOODEN FENCE POST	209	39.22	128.7
<b>MK # 3</b>	FENCE CORNER POST	300	25.66	84.2

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOPORT	
<b>Ref Mon # 2</b> SPRINGDALE	
<b>Ref Mon # 3</b> 720009	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 19.4170476
<b>Longitude</b>	94 32 1.1810760
<b>Ellipsoid Height (M):</b>	326.596
<b>Geoid Height (M):</b>	-28.776

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.31 KM. (7.65 MI.) TO THE STATION ON THE LEFT. 44.0 METERS NORTH OF A FIELD ENTRANCE, 10.8 METERS EAST OF THE CENTER OF HWY-59 AND 0.64 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
720018 RESET	10/28/2002	AHTD	WASHINGTON	71/540	04822,040489,012069,040505

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	199,160.8679	
<b>Easting (M)</b>	204,673.6200	
<b>Elevation (M)*</b>	380.448	
<b>Northing (SFT)</b>	653,413.6141	
<b>Easting (SFT)</b>	671,500.0350	
<b>Elevation (SFT)*</b>	1,248.188	

  

<b>Convergence Angle</b>	-1	15	44.8914021
<b>Scale Factor</b>	0.999977801		
<b>Elevation Adjust. Factor</b>	0.9999402988		
<b>Combined Adjust. Factor</b>	0.9999181011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 (I 540) &amp; U.S. HIGHWAY 62, AND STATE HIGHWAY 112 ON THE NORTH EDGE OF FAYETTEVILLE, GO NORTH ON U.S. 71 &amp; 62 (I 540) FOR 0.85 MILES TO THE STATION ON THE RIGHT NEAR THE SOUTH END OF AN OVERPASS. THE STATION IS 9.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 (I 540) AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720018 RESET 2002" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	AHTD BENCH MARK DISC	347	2.35	7.7
<b>MK # 2</b>	PUNCH MARK IN TOP OF GUARD RAIL POST	253	2.75	9.0
<b>MK # 3</b>	PUNCH MARK IN TOP OF GUARD RAIL POS	225	6.52	21.4

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	AGRONOMY	<p>3-Wire Levels ran from NGS Marks C 27, K 310, &amp; A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified by 3 wire levels by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, &amp; A 27.</p>
<b>Ref Mon # 2</b>	ENES	
<b>Ref Mon # 3</b>	V 26	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720019 (p.1)	<b>Date Monumented</b> 12/9/1997	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> R40023
--------------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	202,128.5130
<b>Easting (M)</b>	201,776.9310
<b>Elevation (M)*</b>	349.953
<b>Northing (SFT)</b>	663,149.9631
<b>Easting (SFT)</b>	661,996.4811
<b>Elevation (SFT)*</b>	1,148.137

  

<b>Convergence Angle</b>	-1 16 53.8141240
<b>Scale Factor</b>	0.999982083
<b>Elevation Adjust. Factor</b>	0.9999450840
<b>Combined Adjust. Factor</b>	0.9999271680

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	8	6.8649648
<b>Longitude</b>	94	12	8.8899084
<b>Ellipsoid Height:</b>	321.955		
<b>Grid Northing (Meters)</b>	202,128.5130		
<b>Grid Easting (Meters)</b>	201,776.9310		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 112 ON THE NORTHWEST SIDE OF FAYETTEVILLE, GO NORTHERLY ON STATE HWY-112 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE LEFT. 19.0 METERS NORTH OF THE NORTHWEST END OF A BRIDGE OVER "CLEAR CREEK", 7.85 METERS WEST OF THE CENTER OF HWY-112, 6.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND 0.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	PUNCH POINT IN TOP OF GUARD RAIL POS	356	5.85	19.2	
<b>MK # 2</b>	PUNCH POINT IN TOP OF GUARD RAIL POS	8	2.10	6.9	
<b>MK # 3</b>	PUNCH POINT IN TOP OF GUARD RAIL POS	155	3.89	12.8	

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> <input type="text" value="FLINT"/></p> <p><b>Ref Mon # 2</b> <input type="text" value="OLD MAIN"/></p> <p><b>Ref Mon # 3</b> <input type="text" value="V 26"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>SEE DATASHEET FOR 720019 (p.2) FOR LATEST OBSERVED POSITION ON THIS GPS POINT.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720019 (p.2)	<b>Date Monumented</b> 12/9/1997	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 040751
--------------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	202,128.5064	0.0020
<b>Easting (M)</b>	201,776.9380	0.0020
<b>Elevation (M)*</b>	349.908	

  

<b>Northing (SFT)</b>	663,149.9414	
<b>Easting (SFT)</b>	661,996.5041	
<b>Elevation (SFT)*</b>	1,147.989	

  

<b>Convergence Angle</b>	-1	16	53.8139585
<b>Scale Factor</b>	0.999982083		
<b>Elevation Adjust. Factor</b>	0.9999450911		
<b>Combined Adjust. Factor</b>	0.9999271751		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 112 ON THE NORTHWEST SIDE OF FAYETTEVILLE, GO NORTHERLY ON STATE HWY-112 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE LEFT. 19.0 METERS NORTH OF THE NORTHWEST END OF A BRIDGE OVER "CLEAR CREEK", 7.85 METERS WEST OF THE CENTER OF HWY-112, 6.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND 0.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL POS	356	5.85	19.2
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL POS	8	2.10	6.9
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POS	155	3.89	12.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	SEE DATASHEET FOR 720019 (p.1) FOR PREVIOUS OBSERVED POSITIONS ON THIS GPS POINT. *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2: CTA1	
Ref Mon # 3: MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720021	<b>Date Monumented</b> 9/11/2000	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> I-540	<b>Job Number:</b> 040354, 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,573.1304	
<b>Easting (M)</b>	203,370.5075	
<b>Elevation (M)*</b>	409.264	
<b>Northing (SFT)</b>	677,732.0120	
<b>Easting (SFT)</b>	667,224.7400	
<b>Elevation (SFT)*</b>	1,342.726	

  

<b>Convergence Angle</b>	-1	16	19.0307175
<b>Scale Factor</b>	0.999989101		
<b>Elevation Adjust. Factor</b>	0.9999357773		
<b>Combined Adjust. Factor</b>	0.9999248790		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE WEST SIDE OF SPRINGDALE AT THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, SET ON THE NORTH SIDE OF U.S. HIGHWAY 412 IN THE MEDIAN OF I 540. THE STATION IS 12.40 METERS WEST OF THE CENTER OF THE NORTH BOUND LANE OF I 540, 7.38 METERS EAST OF THE BACK OF A CRUB AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720021 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN NORTHWEST CORNER OF BRIDGE	89	5.70	18.7
MK # 2	CHISELED "X" IN NORTHEAST CORNER OF BRIDGE	265	6.68	21.9
MK # 3	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	334	9.00	29.5

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    ENES</p> <p>Ref Mon # 3    H37 A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720021A	<b>Date Monumented</b> 9/11/2000	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> I-540	<b>Job Number:</b> 040354, 012111, 040894
---------------------------	-------------------------------------	------------------------------	-----------------------------	-----------------------	--

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	206,984.8930	0.0020
<b>Easting (M)</b>	203,713.8339	0.0020
<b>Elevation (M)*</b>	401.019	

  

<b>Northing (SFT)</b>	679,082.9365	
<b>Easting (SFT)</b>	668,351.1367	
<b>Elevation (SFT)*</b>	1,315.676	

  

<b>Convergence Angle</b>	-1	16	11.2505625
<b>Scale Factor</b>	0.999989784		
<b>Elevation Adjust. Factor</b>	0.9999370710		
<b>Combined Adjust. Factor</b>	0.9999268557		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	10	45.7848192
<b>Longitude</b>	94	10	55.7450508
<b>Ellipsoid Height:</b>	373.074		
<b>Grid Northing (Meters)</b>	206,984.8739		
<b>Grid Easting (Meters)</b>	203,713.8063		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, LOCATED ON THE WEST SIDE OF SPRINGDALE GO NORTH ON I 540 FOR 0.54 KM (0.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF I 540 AND 0.86 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720021A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH IN LINE BRACE POST	23	2.22	7.3
<b>MK # 2</b>	METAL LIGHT POLE	43	15.25	50.0
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	720021
<b>Geodetic Azimuth</b>	218 33 01.84334
<b>Grid Azimuth</b>	219 49 13.03839

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARFY (V 26) <b>Ref Mon # 2</b> ARHR (ENES) <b>Ref Mon # 3</b> CTA1, V 26 (H37 A)	<b>Comments</b> 3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309. *****SUPERCEDED GEOID HT. WAS -27.993m
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720022	<b>Date Monumented</b> 9/17/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> R40082, 040411
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	185,985.4699	
<b>Easting (M)</b>	192,883.8340	
<b>Elevation (M)*</b>	348.088	
<b>Northing (SFT)</b>	610,187.3292	
<b>Easting (SFT)</b>	632,819.7120	
<b>Elevation (SFT)*</b>	1,142.019	

  

<b>Convergence Angle</b>	-1	20	11.9709057
<b>Scale Factor</b>	0.999960694		
<b>Elevation Adjust. Factor</b>	0.9999453766		
<b>Combined Adjust. Factor</b>	0.9999060728		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 8.175 KM (5.08 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.55 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, 1.90 METERS WEST OF A WHITE WOODEN FENCE, AND 1.75 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720022 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 533.832 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR</p> <p><b>Ref Mon # 2</b>    V 26</p> <p><b>Ref Mon # 3</b>    FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, &amp; 040411 by S5103, NTB, &amp; S5101. Data compiled in 040411 in May 2006.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720022A	<b>Date Monumented</b> 9/17/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> R40082, 040411
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	185,587.8129	
<b>Easting (M)</b>	192,527.7350	
<b>Elevation (M)*</b>	358.589	
<b>Northing (SFT)</b>	608,882.6828	
<b>Easting (SFT)</b>	631,651.4106	
<b>Elevation (SFT)*</b>	1,176.469	

  

<b>Convergence Angle</b>	-1	20	20.0253607
<b>Scale Factor</b>	0.999960247		
<b>Elevation Adjust. Factor</b>	0.9999437289		
<b>Combined Adjust. Factor</b>	0.9999039782		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 8.690 KM (5.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62, 1.92 METERS EAST OF A SPLIT RAIL FENCE, AND 1.62 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720022A 2001" SET ON TOP OF AN IRON ROD 0.52 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 533.832 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	35	38.80	127.3
MK # 2	COMBINATION POLE	213	42.00	137.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, &amp; 040411 by S5103, NTB, &amp; S5101. Data compiled in 040411 in May 2006.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720023	<b>Date Monumented</b> 9/17/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> R40082
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	189,609.2869	
<b>Easting (M)</b>	195,301.4710	
<b>Elevation (M)*</b>	390.144	
<b>Northing (SFT)</b>	622,076.4688	
<b>Easting (SFT)</b>	640,751.5761	
<b>Elevation (SFT)*</b>	1,279.997	

  

<b>Convergence Angle</b>	-1	19	17.7631684
<b>Scale Factor</b>	0.999964932		
<b>Elevation Adjust. Factor</b>	0.9999387774		
<b>Combined Adjust. Factor</b>	0.9999037116		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 3.862 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.65 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD (WASHINGTON COUNTY ROAD 255), 18.00 METERS NORTH OF THE CENTER OF A PAVED DRIVE, 10.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.329 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	GAS METER	34	14.75	48.4		
MK # 2	TELEPHONE JUNCTION BOX	194	28.55	93.7		
MK # 3	NORTH END CORRIGATED METAL PIPE	220	11.75	38.5		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720024	<b>Date Monumented</b> 9/18/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> R40082
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,448.4669	
<b>Easting (M)</b>	196,660.1860	
<b>Elevation (M)*</b>	375.483	
<b>Northing (SFT)</b>	628,110.5118	
<b>Easting (SFT)</b>	645,209.2936	
<b>Elevation (SFT)*</b>	1,231.897	

  

<b>Convergence Angle</b>	-1	18	47.1734639
<b>Scale Factor</b>	0.999967215		
<b>Elevation Adjust. Factor</b>	0.9999410779		
<b>Combined Adjust. Factor</b>	0.9999082949		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.529 KM (0.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.45 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 62 AND 1.88 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720024 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 402.418 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720024A	<b>Date Monumented</b> 9/18/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> R40082
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,638.2729	
<b>Easting (M)</b>	197,014.9890	
<b>Elevation (M)*</b>	368.871	
<b>Northing (SFT)</b>	628,733.2337	
<b>Easting (SFT)</b>	646,373.3431	
<b>Elevation (SFT)*</b>	1,210.204	

  

<b>Convergence Angle</b>	-1	18	39.0289414
<b>Scale Factor</b>	0.999967461		
<b>Elevation Adjust. Factor</b>	0.9999421155		
<b>Combined Adjust. Factor</b>	0.9999095783		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	68	19.75	64.8
MK # 2	COMBINATION POLE	57	22.25	73.0
MK # 3				

  

<b>AZ Mark Station</b>	720024
<b>Geodetic Azimuth</b>	240 32 39
<b>Grid Azimuth</b>	241 51 18

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: GAYLOR	
Ref Mon # 2: V 26	
Ref Mon # 3: FLINT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720025	<b>Date Monumented</b> 10/9/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 540	<b>Job Number:</b> 040346, 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	202,487.8430	
<b>Easting (M)</b>	203,549.6190	
<b>Elevation (M)*</b>	373.234	
<b>Northing (SFT)</b>	664,328.8649	
<b>Easting (SFT)</b>	667,812.3750	
<b>Elevation (SFT)*</b>	1,224.517	

  

<b>Convergence Angle</b>	-1	16	12.7522379
<b>Scale Factor</b>	0.999982688		
<b>Elevation Adjust. Factor</b>	0.9999414309		
<b>Combined Adjust. Factor</b>	0.9999241199		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.699 KM (2.92 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.27 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 6.50 METERS SOUTHEAST OF THE CORNER OF THE SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025 2001" SET ON TOP OF AN IRON ROD 0.70 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF NORTH BOUND BRIDGE	116	10.27	33.7	
MK # 2	NORTHEAST CORNER OF SOUTH BOUND BRIDGE	255	6.50	21.3	
MK # 3	PUNCH IN METAL GUARD RAIL POST	302	10.30	33.8	

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	V 26	<p>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</p>
Ref Mon # 2	91040001	
Ref Mon # 3	E E S	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720025A	<b>Date Monumented</b> 10/9/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 540	<b>Job Number:</b> 040346, 012111
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,980.2340	
<b>Easting (M)</b>	203,611.8110	
<b>Elevation (M)*</b>	365.364	
<b>Northing (SFT)</b>	662,663.4844	
<b>Easting (SFT)</b>	668,016.4166	
<b>Elevation (SFT)*</b>	1,198.697	

  

<b>Convergence Angle</b>	-1	16	11.0432742
<b>Scale Factor</b>	0.999981921		
<b>Elevation Adjust. Factor</b>	0.9999426658		
<b>Combined Adjust. Factor</b>	0.9999245878		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.184 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.0 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 9.15 METERS SOUTHWEST OF AN A.H.T.D. BENCHMARK CAP IN WING WALL OF SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PUNCH IN METAL GUARD RAIL POST	72	6.55	21.5
<b>MK # 2</b>	PUNCH IN METAL GUARD RAIL POST	95	6.96	22.8
<b>MK # 3</b>	PUNCH IN METAL GUARD RAIL POST	124	9.65	31.7

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.
<b>Ref Mon # 1</b>	V 26	
<b>Ref Mon # 2</b>	91040001	
<b>Ref Mon # 3</b>	E E S	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720026	<b>Date Monumented</b> 10/25/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 004981
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	174,113.9779	
<b>Easting (M)</b>	191,836.5700	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	571,238.9425	
<b>Easting (SFT)</b>	629,383.8134	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	29.8361479
<b>Scale Factor</b>	0.999949287		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 5.826 KM (3.62 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 265, AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	269	20.40	66.9
<b>MK # 2</b>	CORRIGATED METAL PIPE	18	16.55	54.3
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	51	4.30	14.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    GAYLOR</p> <p><b>Ref Mon # 2</b>    720022</p> <p><b>Ref Mon # 3</b>    ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720026A	<b>Date Monumented</b> 10/25/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 004981
---------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	173,783.1519	
<b>Easting (M)</b>	191,698.1340	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	570,153.5575	
<b>Easting (SFT)</b>	628,929.6280	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	32.8671673
<b>Scale Factor</b>	0.999949017		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	21	14.00	45.9
<b>MK # 2</b>	WOODEN CORNER POST	193	13.15	43.1
<b>MK # 3</b>	WATER METER	150	6.70	22.0

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>720022</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ENES</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	720022	Ref Mon # 3	ENES	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	720022						
Ref Mon # 3	ENES						

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 52 39.9373068
<b>Longitude</b>	94 18 25.3349532
<b>Ellipsoid Height (M):</b>	392.844
<b>Geoid Height (M):</b>	-28.113

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 6.196 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 265 AND 0.58 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.

<b>AZ Mark Station</b>	720026
<b>Geodetic Azimuth</b>	21 21 53
<b>Grid Azimuth</b>	22 42 26

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720027	<b>Date Monumented</b> 10/31/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 4938
--------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	175,789.8429		
<b>Easting (M)</b>	203,486.7740		
<b>Elevation (M)*</b>	431.570		
<b>Northing (SFT)</b>	576,737.1762		
<b>Easting (SFT)</b>	667,606.1910		
<b>Elevation (SFT)*</b>	1,415.909		

  

<b>Convergence Angle</b>	-1	16	0.4767809
<b>Scale Factor</b>	0.999950909		
<b>Elevation Adjust. Factor</b>	0.9999322772		
<b>Combined Adjust. Factor</b>	0.9998831895		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 15.112 KM (9.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.10 METERS SOUTH OF A PAVED DRIVE, 15.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720027 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.799 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101 USING BM X 310 PID= FH1254.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 440015 <b>Ref Mon # 2</b> GAYLOR <b>Ref Mon # 3</b> ENES	ELEV BY 3 WIRE BY S5103 FROM X 310

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720027A	<b>Date Monumented</b> 10/31/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 4938
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	176,425.5650		
<b>Easting (M)</b>	203,482.9860		
<b>Elevation (M)*</b>	417.766		
<b>Northing (SFT)</b>	578,822.8745		
<b>Easting (SFT)</b>	667,593.7632		
<b>Elevation (SFT)*</b>	1,370.621		

  

<b>Convergence Angle</b>	-1	16	0.8908254
<b>Scale Factor</b>	0.999951461		
<b>Elevation Adjust. Factor</b>	0.9999344432		
<b>Combined Adjust. Factor</b>	0.9998859073		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 15.739 KM (9.78 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.10 METERS EAST OF THE CENTER OF HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720027A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.799 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	13	12.00	39.4
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 440015</p> <p>Ref Mon # 2: GAYLOR</p> <p>Ref Mon # 3: ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3 WIRE BY S5103 FROM X 310</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
720028 RESET	5/13/2003	AHTD	WASHINGTON	71	4938

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	171,675.5299	
<b>Easting (M)</b>	209,403.4970	
<b>Elevation (M)*</b>	449.291	
<b>Northing (SFT)</b>	563,238.8010	
<b>Easting (SFT)</b>	687,017.9731	
<b>Elevation (SFT)*</b>	1,474.049	

  

<b>Convergence Angle</b>	-1	13	41.1640253
<b>Scale Factor</b>	0.999947678		
<b>Elevation Adjust. Factor</b>	0.9999294966		
<b>Combined Adjust. Factor</b>	0.9998771783		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	131	7.60	24.9
MK # 2	IN-LINE BRACE POST (WOOD)	299	19.90	65.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="AHTD HAR1"/> <b>Ref Mon # 2</b> <input type="text" value="720029"/> <b>Ref Mon # 3</b> <input type="text" value="720027"/>	<input type="text" value="ELEV BY 3 WIRE FROM BGS B 313 BY S5103"/>  <div style="height: 100px;"></div>

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 51 44.4548412
<b>Longitude</b>	94 6 37.8186120
<b>Ellipsoid Height (M):</b>	421.326
<b>Geoid Height (M):</b>	-27.971

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON HIGHWAY 71 FOR 4.51 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS SOUTH OF THE CENTER OF HIGHWAY 71 AND 1.18 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720028 RESET 2003" ON TOP OF A 0.61 IRON ROD DRIVEN FLUSH WITH THE GROUND.ELEVATION FROM B313 BY S5103</p>

<b>AZ Mark Station</b>	720028A
<b>Geodetic Azimuth</b>	309 41 04
<b>Grid Azimuth</b>	310 54 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720028A	<b>Date Monumented</b> 10/31/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 4938
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	172,140.7360		
<b>Easting (M)</b>	208,866.6880		
<b>Elevation (M)*</b>	444.929		
<b>Northing (SFT)</b>	564,765.0647		
<b>Easting (SFT)</b>	685,256.7922		
<b>Elevation (SFT)*</b>	1,459.738		

  

<b>Convergence Angle</b>	-1	13	53.8441922
<b>Scale Factor</b>	0.999948026		
<b>Elevation Adjust. Factor</b>	0.9999301810		
<b>Combined Adjust. Factor</b>	0.9998782106		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	308	21.30	69.9
<b>MK # 2</b>	WOODEN FENCE POST	116	13.80	45.3
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 440015 & AHTD HAR1	ELEV BY 3 WIRE FROM BGS B 313 BY S5103
<b>Ref Mon # 2</b> GAYLOR & 720029	
<b>Ref Mon # 3</b> ENES & 720027	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 51 59.1719868
<b>Longitude</b>	94 6 59.6096172
<b>Ellipsoid Height (M):</b>	416.963
<b>Geoid Height (M):</b>	-27.970

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 7.982 KM (4.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.80 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 71 AND 1.00 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720028A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 710.522 METERS.ELEVATION FROM B313 BY S5103</p>

<b>AZ Mark Station</b>	720028 RESET
<b>Geodetic Azimuth</b>	129 40 52
<b>Grid Azimuth</b>	130 54 45

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720029	<b>Date Monumented</b> 10/31/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 4938
--------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	166,459.2820				
<b>Easting (M)</b>	207,504.6540				
<b>Elevation (M)*</b>	494.845				
<b>Northing (SFT)</b>	546,125.1610				
<b>Easting (SFT)</b>	680,788.1857				
<b>Elevation (SFT)*</b>	1,623.505				

  

<b>Convergence Angle</b>	-1	14	22.5793586
<b>Scale Factor</b>	0.999944017		
<b>Elevation Adjust. Factor</b>	0.9999223487		
<b>Combined Adjust. Factor</b>	0.9998663700		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	162	30.00	98.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: 440015	ELEV BY 3 WIRE FROM X 312 BY S5103
Ref Mon # 2: GAYLOR	
Ref Mon # 3: ENES	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720029A	<b>Date Monumented</b> 10/31/2001	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 4938
---------------------------	--------------------------------------	------------------------------	-----------------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	166,005.3639
<b>Easting (M)</b>	207,447.5720
<b>Elevation (M)*</b>	504.905
<b>Northing (SFT)</b>	544,635.9314
<b>Easting (SFT)</b>	680,600.9091
<b>Elevation (SFT)*</b>	1,656.510

  

<b>Convergence Angle</b>	-1	14	23.6745749
<b>Scale Factor</b>	0.999943732		
<b>Elevation Adjust. Factor</b>	0.9999207702		
<b>Combined Adjust. Factor</b>	0.9998645066		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 0.451 KM (0.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 8.10 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720029A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.550 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	205	13.80	45.3
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: 440015</p> <p>Ref Mon # 2: GAYLOR</p> <p>Ref Mon # 3: ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3 WIRE FROM X 312 BY S5103</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720030	<b>Date Monumented</b> 10/7/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> 040397, 040411
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,900.0029	
<b>Easting (M)</b>	190,896.6620	
<b>Elevation (M)*</b>	354.352	
<b>Northing (SFT)</b>	600,064.4262	
<b>Easting (SFT)</b>	626,300.1319	
<b>Elevation (SFT)*</b>	1,162.570	

  

<b>Convergence Angle</b>	-1	20	56.4347880
<b>Scale Factor</b>	0.999957351		
<b>Elevation Adjust. Factor</b>	0.9999443937		
<b>Combined Adjust. Factor</b>	0.9999017471		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	279	16.00	52.5
<b>MK # 2</b>	SOUTH GATE POST	16	1.65	5.4
<b>MK # 3</b>	4" WOOD FENCE POST	87	0.50	1.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="GAYLOR"/> <b>Ref Mon # 2</b> <input type="text" value="ENES"/> <b>Ref Mon # 3</b> <input type="text" value="OKMU"/>	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

  

Location Description	
<p>TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION ON U.S. HIGHWAY 62 (BUCHANAN STREET) &amp; MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.10 MILE TO THE STATION ON THE LEFT. THE STATION IS 8.30 METERS EAST OF THE CENTER OF MOCK STREET, 5.40 METERS SOUTH OF A FIELD ENTRANCE, AND 0.44 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720030 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

  

<b>AZ Mark Station</b>	720030A	
<b>Geodetic Azimuth</b>	182 31 55	
<b>Grid Azimuth</b>	183 52 51	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720030A	<b>Date Monumented</b> 10/7/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> 040397, 040411
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,332.6249	
<b>Easting (M)</b>	190,858.1730	
<b>Elevation (M)*</b>	349.113	
<b>Northing (SFT)</b>	598,202.9535	
<b>Easting (SFT)</b>	626,173.8559	
<b>Elevation (SFT)*</b>	1,145.382	

  

<b>Convergence Angle</b>	-1	20	57.0181288
<b>Scale Factor</b>	0.999956771		
<b>Elevation Adjust. Factor</b>	0.9999452158		
<b>Combined Adjust. Factor</b>	0.9999019892		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHERN MOST 4" IN LINE BRACE POST	194	2.40	7.9
MK # 2	NORTHERN MOST 4" IN LINE BRACE POST	265	0.75	2.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    GAYLOR Ref Mon # 2    ENES Ref Mon # 3    OKMU	<b>Comments</b> 3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.
---	---

  

Location Description			
TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION OF U.S. HIGHWAY 62 (BUCHANAN STREET) AND MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.45 MILES ON MOCK STREET TO THE STATION ON THE RIGHT. THE STATION IS 7.95 METERS WEST OF THE CENTER OF MOCK STREET, 0.65 METERS EAST OF A BARB WIRE FENCE LINE, AND 0.55 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720030A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720031	<b>Date Monumented</b> 10/7/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	183,167.4609		
<b>Easting (M)</b>	178,791.3180		
<b>Elevation (M)*</b>	422.166		
<b>Northing (SFT)</b>	600,941.9113		
<b>Easting (SFT)</b>	586,584.5158		
<b>Elevation (SFT)*</b>	1,385.056		

  

<b>Convergence Angle</b>	-1	25	37.6235709
<b>Scale Factor</b>	0.999957325		
<b>Elevation Adjust. Factor</b>	0.9999337528		
<b>Combined Adjust. Factor</b>	0.9998910806		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	REINFORCED CONCRETE PIPE	52	11.31	37.1
<b>MK # 2</b>	POWER POLE	96	8.37	27.5
<b>MK # 3</b>	GAS METER	144	15.20	49.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="GAYLOR"/> <b>Ref Mon # 2</b> <input type="text" value="ENES"/> <b>Ref Mon # 3</b> <input type="text" value="OKMU"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 57 34.2147744
<b>Longitude</b>	94 27 9.0621576
<b>Ellipsoid Height (M):</b>	393.921
<b>Geoid Height (M):</b>	-28.245

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 1.85 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.29 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 12.80 METERS WEST OF THE CENTER OF A DRIVEWAY, AND 0.87 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FH0057, RAN BY CREW S5101.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720031A	<b>Date Monumented</b> 10/7/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> 040397
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	183,223.1400				
<b>Easting (M)</b>	178,295.5360				
<b>Elevation (M)*</b>	418.945				
<b>Northing (SFT)</b>	601,124.5852				
<b>Easting (SFT)</b>	584,957.9377				
<b>Elevation (SFT)*</b>	1,374.489				

  

<b>Convergence Angle</b>	-1	25	49.1657219
<b>Scale Factor</b>	0.999957369		
<b>Elevation Adjust. Factor</b>	0.9999342582		
<b>Combined Adjust. Factor</b>	0.9998916300		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.90 MILES NORTH OF THE CENTER OF U.S. HIGHWAY 62, 0.88 METERS SOUTH OF A BARB WIRE FENCE LINE, AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FH0057, RAN BY CREW S5101.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: ENES</p> <p>Ref Mon # 3: OKMU</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720032	<b>Date Monumented</b> 10/23/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 040399,012069,040418,012111
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,026.8170	
<b>Easting (M)</b>	203,552.9720	
<b>Elevation (M)*</b>	383.814	
<b>Northing (SFT)</b>	633,288.8154	
<b>Easting (SFT)</b>	667,823.3756	
<b>Elevation (SFT)*</b>	1,259.231	

  

<b>Convergence Angle</b>	-1	16	7.7981038
<b>Scale Factor</b>	0.999969408		
<b>Elevation Adjust. Factor</b>	0.9999397706		
<b>Combined Adjust. Factor</b>	0.9999091805		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	3	24.85	81.5
MK # 2	FLAG POLE	80	17.20	56.4
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="AGRONOMY"/> <b>Ref Mon # 2</b> <input type="text" value="ENES"/> <b>Ref Mon # 3</b> <input type="text" value="V 26"/>	3-wire levels ran by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720033	<b>Date Monumented</b> 10/23/2002	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 5, 004822, 040489, 040418, 04
--------------------------	--------------------------------------	------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	197,060.9671 0.0020
<b>Easting (M)</b>	204,131.2277 0.0020
<b>Elevation (M)*</b>	388.933

  

<b>Northing (SFT)</b>	646,524.1896	
<b>Easting (SFT)</b>	669,720.5362	
<b>Elevation (SFT)*</b>	1,276.026	

  

<b>Convergence Angle</b>	-1	15	56.4286176
<b>Scale Factor</b>	0.999974817		
<b>Elevation Adjust. Factor</b>	0.9999389674		
<b>Combined Adjust. Factor</b>	0.9999137859		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Latitude</b>	36 5 24.1893312
<b>Longitude</b>	94 10 30.2731572
<b>Ellipsoid Height:</b>	360.972
<b>Grid Northing (Meters)</b>	197,060.9660
<b>Grid Easting (Meters)</b>	204,131.2060

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 1.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF STATE HIGHWAY 112, 0.70 METERS EAST OF A WHITE PLANK FENCE LINE AND 0.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720033 2002" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH L 310 PID #GG0905 RAN BY CREW S5102.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	72	8.00	26.2
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	AGRONOMY
<b>Geodetic Azimuth</b>	3 16 04
<b>Grid Azimuth</b>	4 32 01

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="AGRONOMY"/> <b>Ref Mon # 2</b> <input type="text" value="ENES"/> <b>Ref Mon # 3</b> <input type="text" value="V 26"/>	3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720034	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040423,012069,012111
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	195,815.9129	
<b>Easting (M)</b>	201,761.3360	
<b>Elevation (M)*</b>	388.900	
<b>Northing (SFT)</b>	642,439.3742	
<b>Easting (SFT)</b>	661,945.3165	
<b>Elevation (SFT)*</b>	1,275.915	

  

<b>Convergence Angle</b>	-1	16	50.8930018
<b>Scale Factor</b>	0.999973038		
<b>Elevation Adjust. Factor</b>	0.9999389727		
<b>Combined Adjust. Factor</b>	0.9999120123		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, THE STATION MARK IS AT THE NORTHWEST CORNER OF THE OVERPASS BRIDGE, NORTH 8.80 METERS OF THE CENTERLINE OF HIGHWAY 16 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	125	2.80	9.2
MK # 2	4th GUARD RAIL POST GOING WEST FROM NW COR	246	2.50	8.2
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ENES, OKMU</p> <p>Ref Mon # 2    SALI</p> <p>Ref Mon # 3    AGRONOMY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, &amp; A 27.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720034A	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 540	<b>Job Number:</b> 040423,012069,012111
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	195,107.7030				
<b>Easting (M)</b>	201,577.3910				
<b>Elevation (M)*</b>	390.372				
<b>Northing (SFT)</b>	640,115.8556				
<b>Easting (SFT)</b>	661,341.8236				
<b>Elevation (SFT)*</b>	1,280.745				

  

<b>Convergence Angle</b>	-1	16	54.8015275
<b>Scale Factor</b>	0.999972080		
<b>Elevation Adjust. Factor</b>	0.9999387417		
<b>Combined Adjust. Factor</b>	0.9999108234		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO SOUTH ON I-540 0.45 MILES TO THE STATION IN THE MEDIAN, WEST 12.10 METERS OF THE NORTH BOUND LANE, EAST 7.50 METERS OF THE SOUTH BOUND LANE, AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ENES, OKMU</p> <p><b>Ref Mon # 2</b>    SALI</p> <p><b>Ref Mon # 3</b>    AGRONOMY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, &amp; A 27.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720035	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040423
--------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,009.7239	
<b>Easting (M)</b>	197,277.6460	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	643,075.2358	
<b>Easting (SFT)</b>	647,235.0769	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	35.2476101
<b>Scale Factor</b>	0.999973163		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	167	4.90	16.1
<b>MK # 2</b>	COMBINATION POLE	265	1.75	5.7
<b>MK # 3</b>	MAIL BOX#6255	5	2.90	9.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ENES, OKMU	
<b>Ref Mon # 2</b> SALI	
<b>Ref Mon # 3</b> AGRONOMY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 45.0933888
<b>Longitude</b>	94 15 3.2044608
<b>Ellipsoid Height (M):</b>	348.641
<b>Geoid Height (M):</b>	-28.017

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 2.65 MILES TO THE STATION ON THE LEFT, 4.30 METERS EAST OF A DRIVEWAY, SOUTH 7.90 METERS OF THE CENTERLINE AND NORTH 2.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720035 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720035A	<b>Date Monumented</b> 9/9/2003	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040423
---------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	195,998.1990	
<b>Easting (M)</b>	198,023.3890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	643,037.4246	
<b>Easting (SFT)</b>	649,681.7354	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	18	17.9018057
<b>Scale Factor</b>	0.999973171		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	40	5.50	18.0
MK # 2	MAIL BOX#5624	101	19.00	62.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ENES, OKMU	
Ref Mon # 2 SALI	
Ref Mon # 3 AGRONOMY	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 4 45.2716104
<b>Longitude</b>	94 14 33.3955068
<b>Ellipsoid Height (M):</b>	341.279
<b>Geoid Height (M):</b>	-28.010

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 2.2 MILES TO THE STATION ON THE RIGHT, WEST 21.30 METERS OF A DRIVEWAY, NORTH 9.30 METERS OF THE CENTERLINE, AND SOUTH 3.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720035A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720036	<b>Date Monumented</b> 9/7/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,325.8730	
<b>Easting (M)</b>	193,542.8000	
<b>Elevation (M)*</b>	392.672	
<b>Northing (SFT)</b>	680,201.6350	
<b>Easting (SFT)</b>	634,981.6697	
<b>Elevation (SFT)*</b>	1,288.290	

  

<b>Convergence Angle</b>	-1	20	8.2221595
<b>Scale Factor</b>	0.999989963		
<b>Elevation Adjust. Factor</b>	0.9999383808		
<b>Combined Adjust. Factor</b>	0.9999283444		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 FOR 4.1 MILES TO COUNTY ROAD 58, (OLD HIGHWAY 68), AND TURN RIGHT ON CO. ROAD 58 AND GO 0.25 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 38 METERS OF A GRAVEL DRIVE, SOUTHWEST 12.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720036 2004" ON TOP OF 1.0 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	280	235.00	771.0
MK # 2	FENCE CORNER	224	0.60	2.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AGRONOMY</p> <p>Ref Mon # 2    V 26</p> <p>Ref Mon # 3    SAL1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Elevations were ran from NGS J 309 and V 26 by B&amp;F Engr in Job 001966 - Springdale By-pass 11/2004.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720036A	<b>Date Monumented</b> 9/7/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,026.7339	
<b>Easting (M)</b>	193,841.7730	
<b>Elevation (M)*</b>	384.924	
<b>Northing (SFT)</b>	679,220.2095	
<b>Easting (SFT)</b>	635,962.5503	
<b>Elevation (SFT)*</b>	1,262.872	

  

<b>Convergence Angle</b>	-1	20	1.0997058
<b>Scale Factor</b>	0.999989486		
<b>Elevation Adjust. Factor</b>	0.9999395965		
<b>Combined Adjust. Factor</b>	0.9999290831		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	341	18.60	61.0
<b>MK # 2</b>	FENCE CORNER	333	23.40	76.8
<b>MK # 3</b>	FIRE HYDRANT	331	26.70	87.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 FOR 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 27.6 METERS OF AN ASPHALT DRIVE, NORTH 23.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720036A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	720036
<b>Geodetic Azimuth</b>	313 40 56
<b>Grid Azimuth</b>	315 00 57

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720037	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	210,450.9160	
<b>Easting (M)</b>	191,936.2140	
<b>Elevation (M)*</b>	320.986	
<b>Northing (SFT)</b>	690,454.3802	
<b>Easting (SFT)</b>	629,710.7288	
<b>Elevation (SFT)*</b>	1,053.101	

  

<b>Convergence Angle</b>	-1	20	47.3345883
<b>Scale Factor</b>	0.999995130		
<b>Elevation Adjust. Factor</b>	0.9999496294		
<b>Combined Adjust. Factor</b>	0.9999447596		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRINGDALE, GO WEST ON 412 FOR 14.1 MILES TO COUNTY ROAD 58 (OLD HIGHWAY 68) AND TURN RIGHT AND GO 2.4 MILES TO COUNTY ROAD 88 AND TURN RIGHT AND GO 1.1 MILES TO COUNTY ROAD 224 AND TURN RIGHT AND GO 2.5 MILES TO A ROAD INTERSECTION (NORTH GAICHE AND OSAGE HOG FARM ROAD) AND CONTINUE ON EAST 1.4 MILES TO ROCKY COMFORT ROAD AND TURN RIGHT AND GO 0.7 MILES TO THE STATION ON THE RIGHT, NORTH 2.5 METERS OF THE CENTER OF THE GRAVEL DRIVE AND EAST 29.0 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720037 12004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH 2 GUYS	277	29.00	95.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AGRONOMY</p> <p>Ref Mon # 2    V 26</p> <p>Ref Mon # 3    SAL1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Elevations were ran from NGS J 309 and V 26 by B&amp;F Engr in Job 001966 - Springdale By-pass 11/2004.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720037A	<b>Date Monumented</b> 9/8/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	211,317.7539	
<b>Easting (M)</b>	191,953.3170	
<b>Elevation (M)*</b>	325.735	
<b>Northing (SFT)</b>	693,298.3309	
<b>Easting (SFT)</b>	629,766.8409	
<b>Elevation (SFT)*</b>	1,068.682	

  

<b>Convergence Angle</b>	-1	20	47.4107943
<b>Scale Factor</b>	0.999996624		
<b>Elevation Adjust. Factor</b>	0.9999488842		
<b>Combined Adjust. Factor</b>	0.9999455084		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	255	34.90	114.5
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	720037
<b>Geodetic Azimuth</b>	179 47 02
<b>Grid Azimuth</b>	181 07 49

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2 V 26	
Ref Mon # 3 SALI	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720038	<b>Date Monumented</b> 9/9/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,209.2080	
<b>Easting (M)</b>	214,576.6640	
<b>Elevation (M)*</b>	397.878	
<b>Northing (SFT)</b>	679,818.8766	
<b>Easting (SFT)</b>	703,990.2718	
<b>Elevation (SFT)*</b>	1,305.370	

  

<b>Convergence Angle</b>	-1	11	58.4547585
<b>Scale Factor</b>	0.999990535		
<b>Elevation Adjust. Factor</b>	0.9999375639		
<b>Combined Adjust. Factor</b>	0.9999280995		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 2.7 MILES TO THE STATION ON THE LEFT, NORTH 7.4 METERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720038 2004" ON TOP OF A 0.61 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    AGRONOMY</p> <p>Ref Mon # 2    V 26</p> <p>Ref Mon # 3    SAL1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Elevations were ran from NGS J 309 and V 26 by B&amp;F Engr in Job 001966 - Springdale By-pass 11/2004.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720038A	<b>Date Monumented</b> 9/9/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	207,149.0010		
<b>Easting (M)</b>	215,540.5130		
<b>Elevation (M)*</b>	371.217		
<b>Northing (SFT)</b>	679,621.3474		
<b>Easting (SFT)</b>	707,152.4997		
<b>Elevation (SFT)*</b>	1,217.900		

  

<b>Convergence Angle</b>	-1	11	35.9843066
<b>Scale Factor</b>	0.999990469		
<b>Elevation Adjust. Factor</b>	0.9999417474		
<b>Combined Adjust. Factor</b>	0.9999322170		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 3.40 MILES TO THE STATION ON THE RIGHT, SOUTHEAST 14.0 METERS OF THE CENTERLINE AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720038A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AGRONOMY</p> <p>Ref Mon # 2    V 26</p> <p>Ref Mon # 3    SAL1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-Wire Elevations were ran from NGS J 309 and V 26 by B&amp;F Engr in Job 001966 - Springdale By-pass 11/2004.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720039A	<b>Date Monumented</b> 9/9/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,413.2840	
<b>Easting (M)</b>	216,899.5340	
<b>Elevation (M)*</b>	406.919	
<b>Northing (SFT)</b>	673,926.7493	
<b>Easting (SFT)</b>	711,611.2211	
<b>Elevation (SFT)*</b>	1,335.033	

  

<b>Convergence Angle</b>	-1	11	3.5068755
<b>Scale Factor</b>	0.999987700		
<b>Elevation Adjust. Factor</b>	0.9999361452		
<b>Combined Adjust. Factor</b>	0.9999238460		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	260	17.90	58.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

  

Location Description	
TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 iAND STATE HIGHWAY 265, EAST OF SPRINGDALE, GO EAST ON 412 5.0 iMILES TO THE STATION MARK ON THE LEFT, NORTHWEST 22.1 METERS OF iTHE CENTERLINE OF HIGHWAY 412, AND SOUTHEAST 1.3 METERS OF A iWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"720039A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720040	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 040440, 040520
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,459.9450	
<b>Easting (M)</b>	209,527.7690	
<b>Elevation (M)*</b>	411.407	
<b>Northing (SFT)</b>	674,079.8362	
<b>Easting (SFT)</b>	687,425.6888	
<b>Elevation (SFT)*</b>	1,349.758	

  

<b>Convergence Angle</b>	-1	13	55.1304074
<b>Scale Factor</b>	0.999987526		
<b>Elevation Adjust. Factor</b>	0.9999354410		
<b>Combined Adjust. Factor</b>	0.9999229678		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 412, EAST OF SPRINGDALE, GO EAST ON HIGHWAY 412 0.10 MILES TO THE STATION MARK ON THE RIGHT, EAST OF A CONCRETE DRIVE 8.20 METERS, SOUTH 11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720040 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE		7.00	23.0
MK # 2	TELEPHONE RISER		24.40	80.1
MK # 3	TELEPHONE RISER		15.40	50.5

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	V 26	<p>3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.</p>
Ref Mon # 2	A 309	
Ref Mon # 3	ENES	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720041	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 040440
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	201,318.4589				
<b>Easting (M)</b>	209,391.5680				
<b>Elevation (M)*</b>	389.892				
<b>Northing (SFT)</b>	660,492.3106				
<b>Easting (SFT)</b>	686,978.8360				
<b>Elevation (SFT)*</b>	1,279.169				

  

<b>Convergence Angle</b>	-1	13	56.2271278
<b>Scale Factor</b>	0.999981117		
<b>Elevation Adjust. Factor</b>	0.9999388171		
<b>Combined Adjust. Factor</b>	0.9999199352		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45 AND STATE HIGHWAY 265, NORTH OF FAYETTEVILLE, GO NORTH ON HIGHWAY 265 3.0 MILES TO THE STATION ON THE RIGHT, 24.9 METERS EAST OF THE CENTERLINE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720041 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH 3 GUYS		15.80	51.8
<b>MK # 2</b>	SIGNAL LIGHT POLE		23.80	78.1
<b>MK # 3</b>	SS MANHOLE		9.30	30.5

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    V 26</p> <p><b>Ref Mon # 2</b>    A 309</p> <p><b>Ref Mon # 3</b>    ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720041A	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 040440
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	201,338.1470		
<b>Easting (M)</b>	208,977.2670		
<b>Elevation (M)*</b>	388.070		
<b>Northing (SFT)</b>	660,556.9039		
<b>Easting (SFT)</b>	685,619.5835		
<b>Elevation (SFT)*</b>	1,273.193		

  

<b>Convergence Angle</b>	-1	14	5.8764743
<b>Scale Factor</b>	0.999981133		
<b>Elevation Adjust. Factor</b>	0.9999391029		
<b>Combined Adjust. Factor</b>	0.9999202370		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 45, NORTH OF FAYETTEVILLE, GO NORTH ON HIGHWAY 45 3.0 MILES TO ZION ROAD ON THE LEFT AND TURN LEFT (WEST) AND GO 0.2 MILES TO THE STATION MARK ON THE RIGHT, 7.05 METERS NORTH OF THE ROAD AND 13.75 METERS EAST OF RANDAL STREET AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720041A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE		10.40	34.1
MK # 2	COMBINATION POLE		3.30	10.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    A 309</p> <p>Ref Mon # 3    ENES</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720042	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 45	<b>Job Number:</b> 040440, 040486
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	196,637.4409	
<b>Easting (M)</b>	208,800.0260	
<b>Elevation (M)*</b>	430.908	
<b>Northing (SFT)</b>	645,134.6707	
<b>Easting (SFT)</b>	685,038.0853	
<b>Elevation (SFT)*</b>	1,413.737	

  

<b>Convergence Angle</b>	-1	14	7.6416153
<b>Scale Factor</b>	0.999974372		
<b>Elevation Adjust. Factor</b>	0.9999323811		
<b>Combined Adjust. Factor</b>	0.9999067548		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 45, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 45 FOR 0.06 MILES TO THE STATION MARK ON THE LEFT, 15.9 METERS SOUTH OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720042 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROIND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 2</td> <td>A 309</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ENES</td> </tr> </table>	Ref Mon # 1	V 26	Ref Mon # 2	A 309	Ref Mon # 3	ENES	<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="padding: 5px;">           3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.         </td> </tr> </table>	Comments		3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.	
Ref Mon # 1	V 26										
Ref Mon # 2	A 309										
Ref Mon # 3	ENES										
Comments											
3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.											

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720043	<b>Date Monumented</b> 12/2/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 040442
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,150.4109	
<b>Easting (M)</b>	176,335.1590	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	594,324.3064	
<b>Easting (SFT)</b>	578,526.2675	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	26	33.4651804
<b>Scale Factor</b>	0.999955242		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	130	27.80	91.2
<b>MK # 2</b>	PIPE FENCE POST	214	2.60	8.5
<b>MK # 3</b>	PIPE FENCE POST	338	2.70	8.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOAM	
<b>Ref Mon # 2</b> ENES	
<b>Ref Mon # 3</b> SAL 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 26.7943200
<b>Longitude</b>	94 28 45.0265728
<b>Ellipsoid Height (M):</b>	336.628
<b>Geoid Height (M):</b>	-28.298

Location Description
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 62 EAST AND STATE HIGHWAY 59, WEST OF LINCOLN, GO SOUTH ON HIGHWAY 59 FOR 1.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.5 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.2 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720043 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720043A	<b>Date Monumented</b> 12/2/2004	<b>Monumented By</b> 12/2/04	<b>County</b> WASHINGTON	<b>Route</b> 59	<b>Job Number:</b> 040442
---------------------------	-------------------------------------	---------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,958.2649	
<b>Easting (M)</b>	176,374.7100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	596,974.7408	
<b>Easting (SFT)</b>	578,656.0277	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	26	33.0193656
<b>Scale Factor</b>	0.999956040		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PIPE FENCE POST	214	2.60	8.5
<b>MK # 2</b>	PIPE FENCE POST	343	2.60	8.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SILOAM	
<b>Ref Mon # 2</b> ENES	
<b>Ref Mon # 3</b> SAL 1	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 53.0300760
<b>Longitude</b>	94 28 44.2604352
<b>Ellipsoid Height (M):</b>	332.568
<b>Geoid Height (M):</b>	-28.292

Location Description
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 62 EAST AND STATE HIGHWAY 59, WEST OF LINCOLN, GO SOUTH ON HIGHWAY 59 FOR 1.0 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.65 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.0 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720043A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	720043A
<b>Geodetic Azimuth</b>	181 21 37
<b>Grid Azimuth</b>	182 48 10

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720044	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,539.0370	
<b>Easting (M)</b>	217,397.9320	
<b>Elevation (M)*</b>	407.191	
<b>Northing (SFT)</b>	674,339.3239	
<b>Easting (SFT)</b>	713,246.3819	
<b>Elevation (SFT)*</b>	1,335.924	

  

<b>Convergence Angle</b>	-1	10	51.9652901
<b>Scale Factor</b>	0.999987918		
<b>Elevation Adjust. Factor</b>	0.9999361026		
<b>Combined Adjust. Factor</b>	0.9999240214		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Light pole with guy	042	6.35	20.8
<b>MK # 2</b>	Right of way marker	163	10.60	34.8
<b>MK # 3</b>	Guy wire	018	4.65	15.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 720039A	3-Wire Elevations were ran from NGS J 309 and V 26 in Job 001966 - Springdale By-pass 12/2005.
<b>Ref Mon # 2</b> 720038	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>
<b>Latitude</b> 36 10 8.3818920
<b>Longitude</b> 94 1 47.0487396
<b>Ellipsoid Height (M):</b> 379.281
<b>Geoid Height (M):</b> -27.954

  

Location Description
<p>To reach the station from the junction of US highway 412 and highway 265 east of Springdale go east on Hwy-412 for 5.30 miles to the station on the right on top of a high bank. 19.9 meters northeast of county road 382, 31.20 meters south of the center of Hwy-412 and 7.75 meters southwest of a witness post. The station mark is a standard 64mm cap stamped "720044 2005" set on top of an iron rod 0.80 meters long and is just below the ground surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720045	<b>Date Monumented</b> 8/15/2005	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 001966
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,148.9520	
<b>Easting (M)</b>	215,540.4100	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	679,621.1867	
<b>Easting (SFT)</b>	707,152.1618	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	11	35.9866821
<b>Scale Factor</b>	0.999990469		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
Ref Mon # 1	720038
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

  

Comments

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 59.3538060
<b>Longitude</b>	94 3 2.6999820
<b>Ellipsoid Height (M):</b>	343.116
<b>Geoid Height (M):</b>	-27.960

Location Description
<p>To reach the station from the junction of Highway 264 and Hwy-71B north of Springdale go east on hwy-264 for 2.50 miles to "North mountain road" on the right, go right on North mountain road for 0.20 miles to "Reed road", go left on Reed road for 1.20 miles to "Luper road", go right on Luper road for 0.20 miles to "Monitor road", go left on Monitor road for 3.40 miles to the station on the right. The station mark is a standard 64mm cap stamped "720045 2005" set on top of an iron rod 0.80 meters long and is just below the grounds surface. This station replaces 720038.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720048	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> CR60	<b>Job Number:</b> 001966
--------------------------	------------------------------------	------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,321.0290	
<b>Easting (M)</b>	195,988.7300	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	686,747.4093	
<b>Easting (SFT)</b>	643,006.3583	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	12.3490688
<b>Scale Factor</b>	0.999993371		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone riser	278	5.15	16.9
<b>MK # 2</b>	Telephone riser	210	16.90	55.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	720036, 720037, 040050, 04005
<b>Ref Mon # 2</b>	AGRONOMY
<b>Ref Mon # 3</b>	

  

Comments

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720048A	<b>Date Monumented</b> 8/9/2005	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> CR60	<b>Job Number:</b> 001966
---------------------------	------------------------------------	------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,284.9660	
<b>Easting (M)</b>	196,456.4530	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	686,629.0926	
<b>Easting (SFT)</b>	644,540.8796	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	1.4382116
<b>Scale Factor</b>	0.999993328		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gas meter	016	18.20	59.7
<b>MK # 2</b>	Gas meter	252	15.40	50.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 720036, 720037, 040050, 04005	
<b>Ref Mon # 2</b> AGRONOMY	
<b>Ref Mon # 3</b>	

  

<b>Vertical Determined By:</b> NONE	
<b>Elevation Datum:</b> NONE	
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 11 55.0743756
<b>Longitude</b>	94 15 48.2132952
<b>Ellipsoid Height (M):</b>	321.473
<b>Geoid Height (M):</b>	-28.037

  

Location Description
<p>To reach the station from the Washington and Benton county line on Hwy-112 north of Elm Springs go south on hwy-112 for 0.40 miles to county road 60 also known as "Water ave." on the right. Go right on Water ave. for 2.0 miles to the station on the left. 7.80 meters south of the center of county road 60, 6.50 meters from the center of a gravel drive and 0.50 meters north of a witness post. The station mark is a standard 64mm cap stamped "720048A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720051	<b>Date Monumented</b> 1/30/2007	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> NA	<b>Job Number:</b> 040272, 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	202,333.0910	
<b>Easting (M)</b>	205,655.5600	
<b>Elevation (M)*</b>	367.137	
<b>Northing (SFT)</b>	663,821.1494	
<b>Easting (SFT)</b>	674,721.6164	
<b>Elevation (SFT)*</b>	1,204.516	

  

<b>Convergence Angle</b>	-1	15	23.6693137
<b>Scale Factor</b>	0.999982523		
<b>Elevation Adjust. Factor</b>	0.9999423875		
<b>Combined Adjust. Factor</b>	0.9999249115		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 412 (SUNSET) AND 71B (THOMPSON), IN SPRINGDALE, GO WEST ON HIGHWAY 412 FOR 0.90 MILES TO JOHNSON ROAD AND TURN LEFT (SOUTH) AND GO 2.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 35.2 FEET OF THE CENTERLINE OF JOHNSON RD. AND NORTH 79.2 FEET OF NORTH HEWITT STREET, NORTH 24.3 FEET OF THE CENTERLINE OF THE RAILROAD AND SOUTH 31.0 FEET OF THE CENTERLINE OF OAK ROAD AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720051 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	334	4.57	15.0
MK # 2	SOUTHEAST COR OF BRIDGE WING WALL	270	17.92	58.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SPRINGDALE</p> <p>Ref Mon # 2    A 309</p> <p>Ref Mon # 3    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720052	<b>Date Monumented</b> 9/30/2008	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 71B	<b>Job Number:</b> 040505
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	201,127.5639	
<b>Easting (M)</b>	206,989.4990	
<b>Elevation (M)*</b>	388.671	
<b>Northing (SFT)</b>	659,866.0159	
<b>Easting (SFT)</b>	679,098.0480	
<b>Elevation (SFT)*</b>	1,275.165	

  

<b>Convergence Angle</b>	-1	14	52.0186561
<b>Scale Factor</b>	0.999980754		
<b>Elevation Adjust. Factor</b>	0.9999390086		
<b>Combined Adjust. Factor</b>	0.9999197637		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 2.80 miles to the station on the left. 57.40 feet east of the edge of the pavement and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "720052 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the ground surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Metal traffic pole	224	19.87	65.2
MK # 2	manhole	150	16.46	54.0
MK # 3	End of metal fence	68	13.07	42.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 720018 Reset <b>Ref Mon # 2</b> ARHR, ARFY <b>Ref Mon # 3</b> V 26	GPS DERIVED ELEVATIONS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720052A	<b>Date Monumented</b> 9/30/2008	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 71B	<b>Job Number:</b> 040505
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	200,358.1290	
<b>Easting (M)</b>	206,900.3790	
<b>Elevation (M)*</b>	365.743	
<b>Northing (SFT)</b>	657,341.6282	
<b>Easting (SFT)</b>	678,805.6601	
<b>Elevation (SFT)*</b>	1,199.942	

  

<b>Convergence Angle</b>	-1	14	53.7020586
<b>Scale Factor</b>	0.999979613		
<b>Elevation Adjust. Factor</b>	0.9999426063		
<b>Combined Adjust. Factor</b>	0.9999222205		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Northeast end of bridge on south bound lane	200	55.17	181.0
<b>MK # 2</b>	End of guard rail	003	6.06	19.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> 720018 Reset <b>Ref Mon # 2</b> ARFY, ARHR <b>Ref Mon # 3</b> V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEVATIONS</td> </tr> </table>	Comments	GPS DERIVED ELEVATIONS
Comments			
GPS DERIVED ELEVATIONS			

  

Location Description	
To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 3.30 miles to the station on the left. Behind a guard rail.9.00 feet east of the edge of the southbound lane pavement and 4.20 feet east of a witness post The station mark is a 2 1/2 inch cap stamped "720052A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.	

  

<b>AZ Mark Station</b>	720052
<b>Geodetic Azimuth</b>	5 21 31
<b>Grid Azimuth</b>	6 36 25

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720053	<b>Date Monumented</b> 9/30/2008	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> NA	<b>Job Number:</b> 040505, 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	198,463.8870	
<b>Easting (M)</b>	204,626.3130	
<b>Elevation (M)*</b>	385.909	
<b>Northing (SFT)</b>	651,126.9359	
<b>Easting (SFT)</b>	671,344.8286	
<b>Elevation (SFT)*</b>	1,266.102	

  

<b>Convergence Angle</b>	-1	15	45.6344533
<b>Scale Factor</b>	0.999976802		
<b>Elevation Adjust. Factor</b>	0.9999394420		
<b>Combined Adjust. Factor</b>	0.9999162454		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	269	29.69	97.4
MK # 2	East end of gate	311	17.92	58.8
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 720018 Reset <b>Ref Mon # 2</b> ARFY, ARHR <b>Ref Mon # 3</b> V 26	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS mark L310.

  

Location Description
To reach the station from the junction of highways 540 and 112 (exit 66 on 540) go south on hwy-112 for 0.20 miles to Drake st. on the left. Turn left on Drake st. and go 0.40 miles to the station on the left at a farm entrance. 65.0 feet southeast of a farm road, 33.0 feet north of the center of Drake St. and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "720053 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720054	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> Washington	<b>Route</b> NA	<b>Job Number:</b> 040151
--------------------------	------------------------	----------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 205,640.6540		<b>Geoid Datum:</b>
<b>Easting (M)</b> 227,765.0620		<b>Latitude</b> 36 10 18.4144476
<b>Elevation (M)*</b>		<b>Longitude</b> 93 54 52.3819044
<b>Northing (SFT)</b> 674,672.7123		<b>Ellipsoid Height (M):</b> 381.975
<b>Easting (SFT)</b> 747,259.2076		<b>Geoid Height (M):</b> -27.926
<b>Elevation (SFT)*</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Convergence Angle</b> -1 6 50.6710203		
<b>Scale Factor</b> 0.999988415		
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; margin-top: 5px;"></div>
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b>
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/>  <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/>  <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; text-align: center; padding: 2px; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720055	<b>Date Monumented</b> 4/28/2009	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040498, 040569
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,017.5999	
<b>Easting (M)</b>	217,413.7670	
<b>Elevation (M)*</b>	365.001	
<b>Northing (SFT)</b>	623,416.0757	
<b>Easting (SFT)</b>	713,298.3339	
<b>Elevation (SFT)*</b>	1,197.508	

  

<b>Convergence Angle</b>	-1	10	44.1609796
<b>Scale Factor</b>	0.999966009		
<b>Elevation Adjust. Factor</b>	0.9999427227		
<b>Combined Adjust. Factor</b>	0.9999087337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.1 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.4 FEET OF THE CENTERLINE OF HIGHWAY 16, 34.0 FEET WEST OF THE CENTERLINE OF TWIN OAKS DRIVE, EAST 104.0 FEET OF A CONCRETE DRIVE, AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	248	1.80	5.9
MK # 2	POWER POLE	287	15.51	50.9
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="GAYLOR"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ARFY"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="ARHR"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720055A	<b>Date Monumented</b> 4/28/2009	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040498, 040569
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,200.4389	
<b>Easting (M)</b>	216,977.8340	
<b>Elevation (M)*</b>	364.196	
<b>Northing (SFT)</b>	624,015.9400	
<b>Easting (SFT)</b>	711,868.1104	
<b>Elevation (SFT)*</b>	1,194.866	

  

<b>Convergence Angle</b>	-1	10	54.3788857
<b>Scale Factor</b>	0.999966221		
<b>Elevation Adjust. Factor</b>	0.9999428491		
<b>Combined Adjust. Factor</b>	0.9999090720		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CABLE MARKER	291	5.06	16.6
<b>MK # 2</b>	FENCE CORNER	8	1.55	5.1
<b>MK # 3</b>	GAS METER	89	13.56	44.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="GAYLOR"/>	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.
<b>Ref Mon # 2</b> <input type="text" value="ARFY"/>	
<b>Ref Mon # 3</b> <input type="text" value="ARHR"/>	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 1 50.5514496
<b>Longitude</b>	94 1 51.1965300
<b>Ellipsoid Height (M):</b>	336.216
<b>Geoid Height (M):</b>	-27.909

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.4 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.3 FEET OF THE CENTERLINE OF HIGHWAY 16, 100.00 FEET WEST OF THE CENTERLINE OF A ASPHALT DRIVE, AND 4.4 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055A 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	720055
<b>Geodetic Azimuth</b>	111 34 21
<b>Grid Azimuth</b>	112 45 15

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720056	<b>Date Monumented</b> 12/2/2009	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 112	<b>Job Number:</b> 012111
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,114.9790	
<b>Easting (M)</b>	203,011.2740	
<b>Elevation (M)*</b>	391.867	
<b>Northing (SFT)</b>	627,016.3936	
<b>Easting (SFT)</b>	666,046.1548	
<b>Elevation (SFT)*</b>	1,285.649	

  

<b>Convergence Angle</b>	-1	16	19.4027731
<b>Scale Factor</b>	0.999966979		
<b>Elevation Adjust. Factor</b>	0.9999385071		
<b>Combined Adjust. Factor</b>	0.9999054882		

  

<b>SUPERCEDED CONTROL</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;"><b>Horizontal Datum</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td></td> </tr> <tr> <td><b>Longitude</b></td> <td></td> </tr> <tr> <td><b>Ellipsoid Height:</b></td> <td></td> </tr> <tr> <td><b>Grid Northing (Meters)</b></td> <td></td> </tr> <tr> <td><b>Grid Easting (Meters)</b></td> <td></td> </tr> </table>	<b>Horizontal Datum</b>		<b>Latitude</b>		<b>Longitude</b>		<b>Ellipsoid Height:</b>		<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	
<b>Horizontal Datum</b>												
<b>Latitude</b>												
<b>Longitude</b>												
<b>Ellipsoid Height:</b>												
<b>Grid Northing (Meters)</b>												
<b>Grid Easting (Meters)</b>												

  

<b>Location Description</b>				
<p>To reach the station from the junction of hwy-16 and 112 southwest of Fayetteville go south on hwy-112 for 0.90 miles to the station on the left at the top of the bank near the east corner of an overpass over hwy-71. 100.0 feet northeast of the center of hwy-71 north bound lane, 26.5 feet southeast of the center of 540 and 3.0 feet southeast of a witness post. The station is a 2 1/2 inch cap stamped "720056 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>				

  

<b>Location Reference Marks</b>				
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>	
			<b>Meters</b>	<b>Feet</b>
<b>MK # 1</b>	Northeast end of southeast guardrail	42	21.80	71.5
<b>MK # 2</b>	East corner of parapet wall	252	1.70	5.6
<b>MK # 3</b>	Center of a drop inlet	25	5.21	17.1

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;"><b>Comments</b></td> </tr> <tr> <td style="padding: 5px;"> 3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310. </td> </tr> </table>	<b>Comments</b>	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.
<b>Comments</b>			
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720057	<b>Date Monumented</b> 8/17/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040569
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	192,056.6749				
<b>Easting (M)</b>	213,658.7590				
<b>Elevation (M)*</b>	371.243				
<b>Northing (SFT)</b>	630,105.9409				
<b>Easting (SFT)</b>	700,978.7785				
<b>Elevation (SFT)*</b>	1,217.985				

  

<b>Convergence Angle</b>	-1	12	12.4149839
<b>Scale Factor</b>	0.999968447		
<b>Elevation Adjust. Factor</b>	0.9999417433		
<b>Combined Adjust. Factor</b>	0.9999101921		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	332	5.03	16.5
<b>MK # 2</b>	SOUTHEAST CORNER STORM CELLAR	17	29.87	98.0
<b>MK # 3</b>	WATERWELL	30	28.04	92.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.
<b>Ref Mon # 2</b> OKHV	
<b>Ref Mon # 3</b> 720055	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 48.5231100
<b>Longitude</b>	94 4 5.3024160
<b>Ellipsoid Height (M):</b>	343.322
<b>Geoid Height (M):</b>	-27.921

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	720057A
<b>Geodetic Azimuth</b>	266 30 12
<b>Grid Azimuth</b>	267 42 24

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720057A	<b>Date Monumented</b> 8/17/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040569, 040785
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,042.4949	
<b>Easting (M)</b>	213,304.6670	
<b>Elevation (M)*</b>	373.564	
<b>Northing (SFT)</b>	630,059.4187	
<b>Easting (SFT)</b>	699,817.0616	
<b>Elevation (SFT)*</b>	1,225.603	

  

<b>Convergence Angle</b>	-1	12	20.6382220
<b>Scale Factor</b>	0.999968420		
<b>Elevation Adjust. Factor</b>	0.9999413790		
<b>Combined Adjust. Factor</b>	0.9999098008		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	122	3.81	12.5
MK # 2	FENCE CORNER AND RIGHT OF WAY MKR	265	20.27	66.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> OKHV <b>Ref Mon # 3</b> 720055	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 47.8216176
<b>Longitude</b>	94 4 19.4341404
<b>Ellipsoid Height (M):</b>	345.642
<b>Geoid Height (M):</b>	-27.922

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.25 MILES TO THE STATION MARK ON THE RIGHT, 26 FEET OF CENTERLINE OF CONCRETE DRIVE, SOUTH 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057A 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

<b>AZ Mark Station</b>	720057
<b>Geodetic Azimuth</b>	86 30 04
<b>Grid Azimuth</b>	87 42 24

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720058	<b>Date Monumented</b> 8/17/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040569
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,999.1239	
<b>Easting (M)</b>	208,796.2320	
<b>Elevation (M)*</b>	366.985	
<b>Northing (SFT)</b>	633,197.9590	
<b>Easting (SFT)</b>	685,025.6378	
<b>Elevation (SFT)*</b>	1,204.018	

  

<b>Convergence Angle</b>	-1	14	5.9059047
<b>Scale Factor</b>	0.999969520		
<b>Elevation Adjust. Factor</b>	0.9999424113		
<b>Combined Adjust. Factor</b>	0.9999119331		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 0.25 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 24.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 37.0 FEET OF THE CENTERLINE OF STONEBRIDGE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720058 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	227	8.29	27.2
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="ARFY"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="OKHV"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="720055"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720058A	<b>Date Monumented</b> 8/17/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 16	<b>Job Number:</b> 040569
---------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	193,105.8359	
<b>Easting (M)</b>	209,221.5970	
<b>Elevation (M)*</b>	363.074	
<b>Northing (SFT)</b>	633,548.0633	
<b>Easting (SFT)</b>	686,421.1895	
<b>Elevation (SFT)*</b>	1,191.186	

  

<b>Convergence Angle</b>	-1	13	56.0716469
<b>Scale Factor</b>	0.999969669		
<b>Elevation Adjust. Factor</b>	0.9999430250		
<b>Combined Adjust. Factor</b>	0.9999126958		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 0.5 MILES TO THE STATION MARK ON THE RIGHT, 15.3 FEET NORTH OF A FENCE AND SOUTH 24.7 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720058A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	90	11.43	37.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    OKHV</p> <p>Ref Mon # 3    720055</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720059	<b>Date Monumented</b> 9/22/2010	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 170	<b>Job Number:</b> 040570
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	187,308.2909	
<b>Easting (M)</b>	194,836.8430	
<b>Elevation (M)*</b>	350.772	
<b>Northing (SFT)</b>	614,527.2844	
<b>Easting (SFT)</b>	639,227.2091	
<b>Elevation (SFT)*</b>	1,150.824	

  

<b>Convergence Angle</b>	-1	19	27.3226945
<b>Scale Factor</b>	0.999962231		
<b>Elevation Adjust. Factor</b>	0.9999449555		
<b>Combined Adjust. Factor</b>	0.9999071886		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	24	6.00	19.7
<b>MK # 2</b>	TELEPHONE BOX	301	10.05	33.0
<b>MK # 3</b>	COMBINATION POLE	285	23.89	78.4

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> ARHR, AGRONOMY <b>Ref Mon # 2</b> OKMU <b>Ref Mon # 3</b> SAL 5	<b>Comments</b> ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
--	--

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.65 MILES TO THE MARK ON THE LEFT, NORTH 11.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	720059A
<b>Geodetic Azimuth</b>	91 57 02
<b>Grid Azimuth</b>	93 16 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720059A	<b>Date Monumented</b> 9/22/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 170	<b>Job Number:</b> 040570
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	187,293.4089		
<b>Easting (M)</b>	195,096.9430		
<b>Elevation (M)*</b>	345.842		
<b>Northing (SFT)</b>	614,478.4590		
<b>Easting (SFT)</b>	640,080.5538		
<b>Elevation (SFT)*</b>	1,134.650		

  

<b>Convergence Angle</b>	-1	19	21.2729858
<b>Scale Factor</b>	0.999962221		
<b>Elevation Adjust. Factor</b>	0.9999457291		
<b>Combined Adjust. Factor</b>	0.9999079521		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	137	41.76	137.0
MK # 2	COMBINATION POLE	47	14.33	47.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR, AGRONOMY Ref Mon # 2    OKMU Ref Mon # 3    SAL 5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010</td> </tr> </table>	Comments	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
Comments			
ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010			

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 36 0 0.7397568

**Longitude** 94 16 22.2995712

**Ellipsoid Height (M):** 317.817

**Geoid Height (M):** -28.025

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.85 MILES TO THE MARK ON THE RIGHT, SOUTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	720059
<b>Geodetic Azimuth</b>	271 57 08
<b>Grid Azimuth</b>	273 16 29

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720060	<b>Date Monumented</b> 9/22/2010	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 170	<b>Job Number:</b> 040570
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	187,306.0970		
<b>Easting (M)</b>	194,943.3500		
<b>Elevation (M)*</b>	345.774		
<b>Northing (SFT)</b>	614,520.0866		
<b>Easting (SFT)</b>	639,576.6408		
<b>Elevation (SFT)*</b>	1,134.425		

  

<b>Convergence Angle</b>	-1	19	24.8475233
<b>Scale Factor</b>	0.999962231		
<b>Elevation Adjust. Factor</b>	0.9999457398		
<b>Combined Adjust. Factor</b>	0.9999079728		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST COR BRIDGE	275	8.23	27.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARHR, AGRONOMY	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
Ref Mon # 2 OKMU	
Ref Mon # 3 SAL 5	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 0 1.0362528
<b>Longitude</b>	94 16 28.4424528
<b>Ellipsoid Height (M):</b>	317.747
<b>Geoid Height (M):</b>	-28.027

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.75 MILES TO THE MARK ON THE LEFT, NORTH 10.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 19.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720060 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720061	<b>Date Monumented</b> 7/24/2014	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> CR58	<b>Job Number:</b> BR0405
--------------------------	-------------------------------------	------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	208,513.4552	0.0040			
<b>Easting (M)</b>	190,204.0468	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	684,097.8943				
<b>Easting (SFT)</b>	624,027.7769				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	21	26.6052988
<b>Scale Factor</b>	0.999991792		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	PIPE FENCE CORNER	279	9.33	30.6
<b>MK # 2</b>	POWER POLE W/2 GUYS AND TRANSFORM	310	17.50	57.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> MOA2 <b>Ref Mon # 3</b> CTA1	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 12A

**Latitude** 36 11 25.3166928

**Longitude** 94 19 57.6845184

**Ellipsoid Height (M):** 299.518 0.0080

**Geoid Height (M):** -28.185 0.0080

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRIONGDALE, GO WEST ON 412 FOR 4.1 MILES TO OLD HIGHWAY 68 (COUNTY ROAD 58) ON THE RIGHT, TURN RIGHT AND GO 2.5 MILES TO THE MARK ON THE RIGHT, 35.3 FEET NORTHWEST OF THE CENTERLINE OF THE ROAD AND 8 FEET NORTHWEST OF A GRAVEL ROAD (COUNTY ROAD 88). THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 720061" ON TOPO OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	40113
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720062	<b>Date Monumented</b> 3/29/2016	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 180	<b>Job Number:</b> 040420, 040720
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	197,235.4954	0.0010			
<b>Easting (M)</b>	205,342.9365	0.0020			
<b>Elevation (M)*</b>	385.890	0.0031			
<b>Northing (SFT)</b>	647,096.7878				
<b>Easting (SFT)</b>	673,695.9508				
<b>Elevation (SFT)*</b>	1,266.041				

  

<b>Convergence Angle</b>	-1	15	28.3392518
<b>Scale Factor</b>	0.999975096		
<b>Elevation Adjust. Factor</b>	0.9999394449		
<b>Combined Adjust. Factor</b>	0.9999145425		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	185	22.10	72.5
<b>MK # 2</b>	RAILROAD CROSSING SIGN	280	3.60	11.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CTAI	Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARHR	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36    5    30.7162320
<b>Longitude</b>	94    9    42.0004080
<b>Ellipsoid Height (M):</b>	357.778    0.0090
<b>Geoid Height (M):</b>	-28.069

  

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO SOUTH ON GREGG AVE FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11 FT. EAST OF A WITNESS POST, 48.5 FT. WEST OF THE CENTERLINE OF GREGG AVE., 28 FT. NORTH OF THE CENTERLINE OF W. GARRETT DR., AND 22.5 FT. EAST OF THE NEAREST RAIL. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720062 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720062A	<b>Date Monumented</b> 3/29/2016	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 180	<b>Job Number:</b> 040420, 040720
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	197,714.8136	0.0010
<b>Easting (M)</b>	205,411.9126	0.0020
<b>Elevation (M)*</b>	381.207	0.0007
<b>Northing (SFT)</b>	648,669.3510	
<b>Easting (SFT)</b>	673,922.2499	
<b>Elevation (SFT)*</b>	1,250.678	

  

<b>Convergence Angle</b>	-1	15	26.9798493
<b>Scale Factor</b>	0.999975768		
<b>Elevation Adjust. Factor</b>	0.9999401797		
<b>Combined Adjust. Factor</b>	0.9999159492		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	263	7.80	25.6
<b>MK # 2</b>	POWER POLE WITH LIGHT	18	40.40	132.5
<b>MK # 3</b>	POWER POLE WITH LIGHT	159	47.10	154.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CTAI <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARHR	Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID12A
<b>Latitude</b>	36 5 46.3129440
<b>Longitude</b>	94 9 39.6642600
<b>Ellipsoid Height (M):</b>	353.091 0.0090
<b>Geoid Height (M):</b>	-28.070

  

Location Description
TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE FOR 0.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 18 FT. EAST OF A WITNESS POST, 90 FT. WEST OF THE CENTERLINE OF GREGG AVE., 24 FT. WEST OF NEAREST RAIL, AND 18.5 FT. EAST OF A WOOD FENCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720062A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720063	<b>Date Monumented</b> 3/29/2016	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 180	<b>Job Number:</b> 040420, 040720, CB7201
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	200,052.1273 0.0010
<b>Easting (M)</b>	204,894.1104 0.0010
<b>Elevation (M)*</b>	365.983 0.0015
<b>Northing (SFT)</b>	656,337.6877
<b>Easting (SFT)</b>	672,223.4272
<b>Elevation (SFT)*</b>	1,200.729

  

<b>Convergence Angle</b>	-1	15	40.2190507
<b>Scale Factor</b>	0.999979100		
<b>Elevation Adjust. Factor</b>	0.9999425687		
<b>Combined Adjust. Factor</b>	0.9999216699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH FROM THE INTERSECTION OF HWY 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE. FOR 1.5 MILES TO VAN ASCHE DR. THEN GO WEST (LEFT) ON VAN ASCHE DR FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. SOUTH OF A WITNESS POST, 40.5 FT. NORTH OF THE CENTERLINE OF VAN ASCHE DR., 43.5 FT. WEST OF THE CENTERLINE OF ROOSEVELT AVE., AND 20 FT. EAST OF THE CENTER OF A MANHOLE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720063 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE CORNER POST	17	3.70	12.1
MK # 2	TELEPHONE BOX	72	32.50	106.6
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CTAI <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARHR	Superceded elevation of 366.0016m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720063A	<b>Date Monumented</b> 3/29/2016	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 180	<b>Job Number:</b> 040420, 040720, CB7201
---------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	200,053.7855    0.0010
<b>Easting (M)</b>	204,421.3979    0.0010
<b>Elevation (M)*</b>	370.974    0.0017
<b>Northing (SFT)</b>	656,343.1279
<b>Easting (SFT)</b>	670,672.5363
<b>Elevation (SFT)*</b>	1,217.104

  

<b>Convergence Angle</b>	-1	15	51.2166091
<b>Scale Factor</b>	0.999979087		
<b>Elevation Adjust. Factor</b>	0.9999417855		
<b>Combined Adjust. Factor</b>	0.9999208737		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EASTERN POST OF WOOD "H" BRACE	206	6.70	22.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    CTAI	Superceded elevation of 370.9834m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201
Ref Mon # 2    ARFY	
Ref Mon # 3    ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720064	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 040751
--------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	200,168.3144 0.0020
<b>Easting (M)</b>	202,484.4649 0.0020
<b>Elevation (M)*</b>	382.519
<b>Northing (SFT)</b>	656,718.8782
<b>Easting (SFT)</b>	664,317.7819
<b>Elevation (SFT)*</b>	1,254.982

  

<b>Convergence Angle</b>	-1	16	36.3345895
<b>Scale Factor</b>	0.999979192		
<b>Elevation Adjust. Factor</b>	0.9999399739		
<b>Combined Adjust. Factor</b>	0.9999191671		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT AND METAL SIGN "WOODLAND ESTATES"	209	18.07	59.3
MK # 2	SIGN "WOODLAND ESTATES"	322	15.54	51.0
MK # 3	18" RCP	49	4.84	15.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> CTA1 <b>Ref Mon # 3</b> MOA2	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID12B
<b>Latitude</b>	36 7 3.7958916
<b>Longitude</b>	94 11 38.8511376
<b>Ellipsoid Height (M):</b>	354.429 0.0020
<b>Geoid Height (M):</b>	-28.096 0.0020

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 1.5 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 33' NORTH OF THE C/L OF W HOWARD NICKLE RD, ALSO KNOWN AS COUNTY ROAD 119. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720064 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720064A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> EN ACRI	<b>Job Number:</b> 012270, 040751
---------------------------	------------------------------------	-------------------------------	-----------------------------	-------------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	200,726.8936	0.0010	
<b>Easting (M)</b>	202,520.5040	0.0010	
<b>Elevation (M)*</b>	394.220		
<b>Northing (SFT)</b>	658,551.4834		
<b>Easting (SFT)</b>	664,436.0202		
<b>Elevation (SFT)*</b>	1,293.370		

  

<b>Convergence Angle</b>	-1	16	35.7857841
<b>Scale Factor</b>	0.999980014		
<b>Elevation Adjust. Factor</b>	0.9999381378		
<b>Combined Adjust. Factor</b>	0.9999181531		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH END 12" CMP	72	13.41	44.0
<b>MK # 2</b>	NORTH END 12" CMP	40	20.60	67.6
<b>MK # 3</b>	POWERPOLE W/2 GUYS	5	42.76	140.3

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720065	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 040751
--------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	203,386.0559	0.0010			
<b>Easting (M)</b>	201,565.5608	0.0010			
<b>Elevation (M)*</b>	406.724				
<b>Northing (SFT)</b>	667,275.7517				
<b>Easting (SFT)</b>	661,303.0107				
<b>Elevation (SFT)*</b>	1,334.393				

  

<b>Convergence Angle</b>	-1	16	59.3877203
<b>Scale Factor</b>	0.999983996		
<b>Elevation Adjust. Factor</b>	0.9999361759		
<b>Combined Adjust. Factor</b>	0.9999201729		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH 1 GUY	330	22.25	73.0
<b>MK # 2</b>	CENTER OF CHAINLINK GATE	179	26.45	86.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 3.85 TO THE MARK ON THE LEFT 25.2' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720065 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	720065A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720065A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 040751
---------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	203,788.1243	0.0020			
<b>Easting (M)</b>	201,428.8531	0.0010			
<b>Elevation (M)*</b>	400.280				
<b>Northing (SFT)</b>	668,594.8711				
<b>Easting (SFT)</b>	660,854.4955				
<b>Elevation (SFT)*</b>	1,313.251				

  

<b>Convergence Angle</b>	-1	17	2.7788317
<b>Scale Factor</b>	0.999984613		
<b>Elevation Adjust. Factor</b>	0.9999371870		
<b>Combined Adjust. Factor</b>	0.9999218010		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/ELECTRIC BOX	180	28.04	92.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720066	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 012270, 040751, 012305
--------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	206,666.7494	0.0010	
<b>Easting (M)</b>	200,344.7724	0.0010	
<b>Elevation (M)*</b>	395.710		
<b>Northing (SFT)</b>	678,039.1603		
<b>Easting (SFT)</b>	657,297.8074		
<b>Elevation (SFT)*</b>	1,298.259		

  

<b>Convergence Angle</b>	-1	17	29.5183035
<b>Scale Factor</b>	0.999989144		
<b>Elevation Adjust. Factor</b>	0.9999379041		
<b>Combined Adjust. Factor</b>	0.9999270487		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION MARK IS IN THE SOUTHWEST CORNER OF THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, IN TONTITOWN, 10.5' SOUTH OF THE BACK OF CURB OF HIGHWAY 412. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "720066 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DROP INLET	79	11.28	37.0
MK # 2	TELEPHONE BOX	114	3.41	11.2
MK # 3	COMBINATION POLE W/2 GUYS	262	29.87	98.0

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARFY Ref Mon # 2    CTA1 Ref Mon # 3    MOA2	<b>Comments</b>  ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720066A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 412	<b>Job Number:</b> 012270, 040751, 012305
---------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	206,711.3437	0.0020			
<b>Easting (M)</b>	199,892.4435	0.0020			
<b>Elevation (M)*</b>	392.166				
<b>Northing (SFT)</b>	678,185.4668				
<b>Easting (SFT)</b>	655,813.7917				
<b>Elevation (SFT)*</b>	1,286.632				

  

<b>Convergence Angle</b>	-1	17	40.0718968
<b>Scale Factor</b>	0.999989199		
<b>Elevation Adjust. Factor</b>	0.9999384601		
<b>Combined Adjust. Factor</b>	0.9999276598		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO WEST ON HIGHWAY 412 0.3 MILES TO THE MARK ON THE RIGHT 5.5' NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720066A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W/GAS METER	295	20.72	68.0
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
<b>Ref Mon # 2</b> CTA1	
<b>Ref Mon # 3</b> MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720067	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 012305
--------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	209,469.6873	0.0020			
<b>Easting (M)</b>	199,301.4080	0.0020			
<b>Elevation (M)*</b>	361.256				
<b>Northing (SFT)</b>	687,235.1324				
<b>Easting (SFT)</b>	653,874.7027				
<b>Elevation (SFT)*</b>	1,185.221				

  

<b>Convergence Angle</b>	-1	17	55.2868771
<b>Scale Factor</b>	0.999993749		
<b>Elevation Adjust. Factor</b>	0.9999433104		
<b>Combined Adjust. Factor</b>	0.9999370597		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	245	3.51	11.5
MK # 2	CENTER OF HDWL	141	11.73	38.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2: CTA1	
Ref Mon # 3: MOA2	

  

<b>Location Description</b>
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO NORTH ON HIGHWAY 112 1.9 MILES TO THE MARK ON THE LEFT 18.8' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720067 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	720067A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720067A	<b>Date Monumented</b> 4/5/2018	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270, 012305
---------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	209,871.9889    0.0020
<b>Easting (M)</b>	198,992.3823    0.0020
<b>Elevation (M)*</b>	355.124
<b>Northing (SFT)</b>	688,555.0169
<b>Easting (SFT)</b>	652,860.8409
<b>Elevation (SFT)*</b>	1,165.101

  

<b>Convergence Angle</b>	-1	18	2.6959024
<b>Scale Factor</b>	0.999994420		
<b>Elevation Adjust. Factor</b>	0.9999442726		
<b>Combined Adjust. Factor</b>	0.9999386930		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE W/GUT	342	11.43	37.5
MK # 2	SOUTHWEST CORNER OF BRIDGE END	7	25.45	83.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2    CTA1	
Ref Mon # 3    MOA2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720068	<b>Date Monumented</b> 4/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> CR 25	<b>Job Number:</b> 040784
--------------------------	------------------------------------	-------------------------------	-----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	197,980.3294	0.0030			
<b>Easting (M)</b>	174,427.6559	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	649,540.4640				
<b>Easting (SFT)</b>	572,268.0677				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	27	27.6782156
<b>Scale Factor</b>	0.999975113		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARRV, CTA1	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 5 31.1078832
<b>Longitude</b>	94 30 18.1922652
<b>Ellipsoid Height (M):</b>	262.392 0.0120
<b>Geoid Height (M):</b>	-28.420 0.0120

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 244, SOUTH OF SILOAM SPRINGS, GO EAST ON HIGHWAY 244 1.65 MILES TO COUNTY ROAD 25 AND TURN RIGHT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE LEFT, 23' EAST OF THE C/L OF CR 25 AND WEST 4.4' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720068 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720068A	<b>Date Monumented</b> 4/6/2020	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> CR 25	<b>Job Number:</b> 040784
---------------------------	------------------------------------	-------------------------------	-----------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	198,437.9175    0.0030
<b>Easting (M)</b>	174,293.2657    0.0040
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	651,041.7343	
<b>Easting (SFT)</b>	571,827.1559	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	27	31.0742457
<b>Scale Factor</b>	0.999975748		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 244, SOUTH OF SILOAM SPRINGS, GO EAST ON HIGHWAY 244 1.65 MILES TO COUNTY ROAD 25 AND TURN LEFT (NORTH) AND GO 0.10 MILES TO THE MARK ON THE LEFT, 21' WEST OF THE C/L OF CR 25 AND EAST 11.4' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720068A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MIDDLE POST OF 3 PIPE POST	98	15.67	51.4
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	720068
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFS</p> <p>Ref Mon # 2    ARFY</p> <p>Ref Mon # 3    ARRV, CTA1</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720069	<b>Date Monumented</b> 9/29/2020	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 04X114
--------------------------	-------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	183,725.6492	0.0030			
<b>Easting (M)</b>	204,631.9285	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	602,773.2341				
<b>Easting (SFT)</b>	671,363.2521				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	15	37.9609255
<b>Scale Factor</b>	0.999958538		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST CORNER ROCK HOUSE	123	21.82	71.6
<b>MK # 2</b>	TELEPHONE BOX	35	14.78	48.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM NGS 1ST ORDER BM W 310 IN OCT. 2020 FOR NON-PROGRAMMED JOB #04X114.
<b>Ref Mon # 2</b> ARFS	
<b>Ref Mon # 3</b> ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720070	<b>Date Monumented</b> 10/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 45	<b>Job Number:</b> 04X219, 04X098
--------------------------	-------------------------------------	-------------------------------	-----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	173,653.6952	0.0030	
<b>Easting (M)</b>	177,668.5347	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	569,728.8317		
<b>Easting (SFT)</b>	582,900.8509		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	25	58.1651327
<b>Scale Factor</b>	0.999948642		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	214	22.28	73.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	
Ref Mon # 2 ARRV	
Ref Mon # 3 ARHR	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 52 24.7143360
<b>Longitude</b>	94 27 44.3630556
<b>Ellipsoid Height (M):</b>	291.232 0.0120
<b>Geoid Height (M):</b>	-28.466 0.0120

Location Description
<p>TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND HIGHWAY 45N, NORTH OF DUTCH MILLS, GO NORTH ON HIGHWAY 45 FOR 1.6 MILES TO THE MARK ON THE LEFT, NORTH 31.1' OF THE C/L OF THE HIGHWAY AND SOUTH 8.2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP ON TOP OF A 4' REBAR STAMPED "2020 720070" AND DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720070A	<b>Date Monumented</b> 10/7/2020	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> CR 433	<b>Job Number:</b> 04X219, 04X098
---------------------------	-------------------------------------	-------------------------------	-----------------------------	------------------------	--------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	173,628.3573	0.0030			
<b>Easting (M)</b>	177,295.0097	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	569,645.7022				
<b>Easting (SFT)</b>	581,675.3777				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	26	6.8126947
<b>Scale Factor</b>	0.999948615		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTHWEST CORNER OF A CHICKEN HOUSE	192	8.72	28.6
<b>MK # 2</b>	SOUTHEAST CORNER OF A METAL BARN	263	28.04	92.0
<b>MK # 3</b>	WATER WELL	111	10.67	35.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY	
<b>Ref Mon # 2</b> ARRV	
<b>Ref Mon # 3</b> ARHR	

  

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 52 23.5891560
<b>Longitude</b>	94 27 59.2239852
<b>Ellipsoid Height (M):</b>	296.661 0.0120
<b>Geoid Height (M):</b>	-28.473 0.0120

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND HIGHWAY 45N, NORTH OF DUTCH MILLS, GO NORTH ON HIGHWAY 45 FOR 1.3 MILES TO COUNTY ROAD 433 AND TURN RIGHT (SOUTH) AND GO 0.1 MILES TO A PRIVATE DRIVE ON THE LEFT, TURN LEFT HERE AND FOLLOW IT 200" TO A Y, TAKE THE LEFT FORK FOR 200' TO THE MARK ON THE LEFT, THE MARK IS A STANDARD 2 1/2" CAP ON TOP OF A 4' REBAR STAMPED "2020 720070A" AND DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730001	<b>Date Monumented</b> 8/11/1994	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 005980, 001748
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 101,812.3021		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 393,761.9840		<b>Latitude</b> 35 15 3.6954108
<b>Elevation (M)*</b> 187.302		<b>Longitude</b> 92 4 6.7672812
<b>Northing (SFT)</b> 334,029.1945		<b>Ellipsoid Height (M):</b> 158.980
<b>Easting (SFT)</b> 1,291,867.4425		<b>Geoid Height (M):</b> -28.276
<b>Elevation (SFT)*</b> 614.507		

  

<b>Convergence Angle</b> 0 2 23.5936658	<b>Location Description</b>  FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD. GO SOUTH ON HWY. 5 FOR 9.54 KM (5.93 MILES) TO THE STATION ON THE LEFT. THE STATION 10.9 METERS EAST OF THE CENTERLINE OF HWY. 5, 28.5 METERS WEST OF THE CENTER OF "HILLTOP ACRES ROAD" AND 1.31 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001" SET ON TOP OF A 3/4" REBAR 1.22 METERSIN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999952747	
<b>Elevation Adjust. Factor</b> 0.9999706071	
<b>Combined Adjust. Factor</b> 0.9999233555	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	5	22.00	72.2
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 SEARPORT	
Ref Mon # 2 HEBEPOR	
Ref Mon # 3 TT 30 RDM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730001A	<b>Date Monumented</b> 8/11/1994	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 005980, 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 101,303.6312		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 393,719.4170		<b>Latitude</b> 35 14 47.1880788
<b>Elevation (M)*</b> 188.009		<b>Longitude</b> 92 4 8.4370692
<b>Northing (SFT)</b> 332,360.3300		<b>Ellipsoid Height (M):</b> 159.687
<b>Easting (SFT)</b> 1,291,727.7873		<b>Geoid Height (M):</b> -28.273
<b>Elevation (SFT)*</b> 616.826		

  

<b>Convergence Angle</b> 0 2 24.5653139	<b>Location Description</b>  FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 10.04 KM (6.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.95 METERS EAST OF THE CENTERLINE OF HWY. 5 AND 0.92 METERS EAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999953212	
<b>Elevation Adjust. Factor</b> 0.9999704961	
<b>Combined Adjust. Factor</b> 0.9999237095	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	98	24.40	80.1	730001
MK # 2	NONE				4 44 36.18332
MK # 3	NONE				4 47 00.74465

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	
Ref Mon # 2 HEBEPOR	
Ref Mon # 3 TT 30 RDM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730002	<b>Date Monumented</b> 8/11/1994	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 005980, 001748,050067
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 106,861.1401		<b>Latitude</b> 35 17 47.4999180
<b>Easting (M)</b> 392,554.0440		<b>Longitude</b> 92 4 54.7177548
<b>Elevation (M)*</b> 195.618		<b>Ellipsoid Height (M):</b> 167.311
<b>Northing (SFT)</b> 350,593.5905		<b>Geoid Height (M):</b> -28.303
<b>Easting (SFT)</b> 1,287,904.3927		
<b>Elevation (SFT)*</b> 641.790		

  

<b>Convergence Angle</b> 0 2 51.4960045	<b>Location Description</b>
<b>Scale Factor</b> 0.999948471	<p>FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN PART OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 4.02 KM (2.5 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTERLINE OF HWY. 5, 8.0 METERS NORTH OF THE CENTER OF A CONCRETE DRIVEWAY, 1.15 METERS WEST OF A BRACE POST AND 0.97 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>Elevation Adjust. Factor</b> 0.9999693021	
<b>Combined Adjust. Factor</b> 0.9999177747	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER POST	149	2.70	8.9
<b>MK # 2</b>	18" METAL CULVERT	215	5.33	17.5
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	
<b>Ref Mon # 2</b> HEBEPOR	
<b>Ref Mon # 3</b> TT 30 RDM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730002A	<b>Date Monumented</b> 8/11/1994	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 005980, 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 106,305.5171		<b>Latitude</b> 35 17 29.4690732
<b>Easting (M)</b> 392,519.2270		<b>Longitude</b> 92 4 56.0774748
<b>Elevation (M)*</b> 191.668		<b>Ellipsoid Height (M):</b> 163.370
		<b>Geoid Height (M):</b> -28.301

  

<b>Northing (SFT)</b> 348,770.6840		<b>Location Description</b>
<b>Easting (SFT)</b> 1,287,790.1639		<p>FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 ON THE WESTERN EDGE OF THE TOWN OF ROSEBUD. GO SOUTH ON HWY. 5 FOR 4.55 KM (2.83 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.4 METERS WEST OF THE CENTERLINE OF HWY. 5 AND 1.45 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 628.831		
<b>Convergence Angle</b> 0 2 52.2872244		
<b>Scale Factor</b> 0.999948911		
<b>Elevation Adjust. Factor</b> 0.9999699219		
<b>Combined Adjust. Factor</b> 0.9999188345		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	NONE				<b>AZ Mark Station</b> 730002
<b>MK # 2</b>	NONE				<b>Geodetic Azimuth</b> 3 32 15.824935
<b>MK # 3</b>	NONE				<b>Grid Azimuth</b> 3 35 08.109346

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;"><b>Ref Mon # 1</b></td> <td>SEARPORT</td> </tr> <tr> <td><b>Ref Mon # 2</b></td> <td>HEBEPOR</td> </tr> <tr> <td><b>Ref Mon # 3</b></td> <td>TT 30 RDM</td> </tr> </table>	<b>Ref Mon # 1</b>	SEARPORT	<b>Ref Mon # 2</b>	HEBEPOR	<b>Ref Mon # 3</b>	TT 30 RDM	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
<b>Ref Mon # 1</b>	SEARPORT						
<b>Ref Mon # 2</b>	HEBEPOR						
<b>Ref Mon # 3</b>	TT 30 RDM						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730003	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><b>Vertical Determined By:</b></td> <td>LEVEL - Unkown Quality</td> </tr> <tr> <td><b>Elevation Datum:</b></td> <td>NGVD 29</td> </tr> <tr> <td><b>Geoid Datum:</b></td> <td></td> </tr> <tr> <td><b>Latitude</b></td> <td>35 5 32.0255952</td> </tr> <tr> <td><b>Longitude</b></td> <td>92 5 6.9991008</td> </tr> <tr> <td><b>Ellipsoid Height (M):</b></td> <td>63.031</td> </tr> <tr> <td><b>Geoid Height (M):</b></td> <td>-28.129</td> </tr> </table>	<b>Vertical Determined By:</b>	LEVEL - Unkown Quality	<b>Elevation Datum:</b>	NGVD 29	<b>Geoid Datum:</b>		<b>Latitude</b>	35 5 32.0255952	<b>Longitude</b>	92 5 6.9991008	<b>Ellipsoid Height (M):</b>	63.031	<b>Geoid Height (M):</b>	-28.129
<b>Vertical Determined By:</b>	LEVEL - Unkown Quality															
<b>Elevation Datum:</b>	NGVD 29															
<b>Geoid Datum:</b>																
<b>Latitude</b>	35 5 32.0255952															
<b>Longitude</b>	92 5 6.9991008															
<b>Ellipsoid Height (M):</b>	63.031															
<b>Geoid Height (M):</b>	-28.129															
<b>Horizontal Datum</b> NAD 83 (1986)																
<b>Northing (M)</b>	84,196.6181															
<b>Easting (M)</b>	392,224.1300															
<b>Elevation (M)*</b>	91.160															
<b>Northing (SFT)</b>	276,235.0712															
<b>Easting (SFT)</b>	1,286,821.9998															
<b>Elevation (SFT)*</b>	299.081															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><b>Convergence Angle</b></td> <td>0 2 58.6425091</td> </tr> <tr> <td><b>Scale Factor</b></td> <td>0.999972565</td> </tr> <tr> <td><b>Elevation Adjust. Factor</b></td> <td>0.9999856942</td> </tr> <tr> <td><b>Combined Adjust. Factor</b></td> <td>0.9999582596</td> </tr> </table>		<b>Convergence Angle</b>	0 2 58.6425091	<b>Scale Factor</b>	0.999972565	<b>Elevation Adjust. Factor</b>	0.9999856942	<b>Combined Adjust. Factor</b>	0.9999582596							
<b>Convergence Angle</b>	0 2 58.6425091															
<b>Scale Factor</b>	0.999972565															
<b>Elevation Adjust. Factor</b>	0.9999856942															
<b>Combined Adjust. Factor</b>	0.9999582596															

  

<b>SUPERCEDED CONTROL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td> <p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT. 16.10 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.65 METERS WEST OF THE CENTER OF HWY-5 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </td> </tr> </table>	Location Description	<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT. 16.10 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.65 METERS WEST OF THE CENTER OF HWY-5 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT. 16.10 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.65 METERS WEST OF THE CENTER OF HWY-5 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	196	24.95	81.9	
MK # 2	NORTH END OF METAL DRAIN PIPE UNDER DRIVE	176	12.87	42.2	
MK # 3	22' (0.55 M) PINE TREE	323	24.95	81.9	

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".
Area Reference Monuments (used for Processing)											
Ref Mon # 1	120009										
Ref Mon # 2	430001										
Ref Mon # 3	730001										
Comments											
ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".											

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730003A	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	83,670.4921	
<b>Easting (M)</b>	392,189.3950	
<b>Elevation (M)*</b>	81.498	
<b>Northing (SFT)</b>	274,508.9395	
<b>Easting (SFT)</b>	1,286,708.0401	
<b>Elevation (SFT)*</b>	267.381	

  

<b>Convergence Angle</b>	0	2	59.4299939
<b>Scale Factor</b>	0.999973274		
<b>Elevation Adjust. Factor</b>	0.9999872105		
<b>Combined Adjust. Factor</b>	0.9999604848		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE RIGHT OF WAY MARKER	270	1.35	4.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 120009	ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

  

<b>Location Description</b>
TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.57 KM. (1.60 MI.) TO THE STATION ON THE RIGHT NEAR A GARDEN SITE. 50.3 METERS SOUTH OF "DOUG SHORT ROAD", 11.4 METERS WEST OF THE CENTER OF HWY-5 AND 1.24 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 5 14.9517276
<b>Longitude</b>	92 5 8.3524020
<b>Ellipsoid Height (M):</b>	53.375
<b>Geoid Height (M):</b>	-28.123

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730004	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748, 012154
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,798.0126	
<b>Easting (M)</b>	391,292.6222	
<b>Elevation (M)*</b>	97.863	
<b>Northing (SFT)</b>	288,050.6463	
<b>Easting (SFT)</b>	1,283,765.8780	
<b>Elevation (SFT)*</b>	321.072	

  

<b>Convergence Angle</b>	0	3	20.1231925
<b>Scale Factor</b>	0.999967896		
<b>Elevation Adjust. Factor</b>	0.9999846423		
<b>Combined Adjust. Factor</b>	0.9999525388		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	7	28.8803964
<b>Longitude</b>	92	5	43.9073988
<b>Ellipsoid Height:</b>	69.688		
<b>Grid Northing (Meters)</b>	87,798.5261		
<b>Grid Easting (Meters)</b>	391,292.7870		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF EL PASO FIRE DE	19	9.12	29.9
MK # 2	SOUTHEAST CORNER OF EL PASO FIRE DEP	63	24.13	79.2
MK # 3	NORTHWEST END OF METAL DRAIN PIPE	133	17.67	58.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730004A	<b>Date Monumented</b> 12/4/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748, 012154
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	87,438.9137		
<b>Easting (M)</b>	391,489.7609		
<b>Elevation (M)*</b>	94.430		
<b>Northing (SFT)</b>	286,872.5027		
<b>Easting (SFT)</b>	1,284,412.6572		
<b>Elevation (SFT)*</b>	309.809		

  

<b>Convergence Angle</b>	0	3	15.5844959
<b>Scale Factor</b>	0.999968347		
<b>Elevation Adjust. Factor</b>	0.9999851811		
<b>Combined Adjust. Factor</b>	0.9999535285		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	7	17.2332912
<b>Longitude</b>	92	5	36.1076244
<b>Ellipsoid Height:</b>	66.260		
<b>Grid Northing (Meters)</b>	87,439.4141		
<b>Grid Easting (Meters)</b>	391,489.9250		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT NEAR A BASEBALL FIELD. 19.45 METERS NORTHWEST OF A GRAVEL DRIVEWAY, 10.90 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.94 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730004A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHAIN LINK FENCE CORNER POST	144	12.38	40.6
<b>MK # 2</b>	NORTH END OF A METAL DRAIN PIPE	153	15.32	50.3
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    120009</p> <p><b>Ref Mon # 2</b>    430001</p> <p><b>Ref Mon # 3</b>    730001</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730005	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	90,607.5421	
<b>Easting (M)</b>	391,623.5700	
<b>Elevation (M)*</b>	107.013	
<b>Northing (SFT)</b>	297,268.2444	
<b>Easting (SFT)</b>	1,284,851.6626	
<b>Elevation (SFT)*</b>	351.092	

  

<b>Convergence Angle</b>	0	3	12.5772507
<b>Scale Factor</b>	0.999964473		
<b>Elevation Adjust. Factor</b>	0.9999832065		
<b>Combined Adjust. Factor</b>	0.9999476800		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	153	10.50	34.4
<b>MK # 2</b>	NORTH END OF A METAL DRAIN PIPE	176	25.95	85.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 120009	
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 9 0.0436104
<b>Longitude</b>	92 5 30.9461064
<b>Ellipsoid Height (M):</b>	78.811
<b>Geoid Height (M):</b>	-28.202

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 5.31 KM. (3.30 ML) TO THE STATION ON THE RIGHT JUST NORTHWEST OF A CHURCH OF CHRIST. 30.20 METERS NORTH OF A GRAVEL DRIVEWAY, 14.10 METERS EAST OF THE CENTER OF HWY-5 AND 1.32 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730005A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	90,144.8801				
<b>Easting (M)</b>	391,712.9660				
<b>Elevation (M)*</b>	99.597				
<b>Northing (SFT)</b>	295,750.3275				
<b>Easting (SFT)</b>	1,285,144.9560				
<b>Elevation (SFT)*</b>	326.761				

  

<b>Convergence Angle</b>	0	3	10.5121815
<b>Scale Factor</b>	0.999965024		
<b>Elevation Adjust. Factor</b>	0.9999843702		
<b>Combined Adjust. Factor</b>	0.9999493948		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN FENCE POST	178	6.30	20.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	730005
<b>Geodetic Azimuth</b>	349 00 39.9716
<b>Grid Azimuth</b>	349 03 50.4948

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 120009	
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730006	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	95,245.6891				
<b>Easting (M)</b>	393,162.6920				
<b>Elevation (M)*</b>	126.567				
<b>Northing (SFT)</b>	312,485.2317				
<b>Easting (SFT)</b>	1,289,901.2653				
<b>Elevation (SFT)*</b>	415.245				

  

<b>Convergence Angle</b>	0	2	37.2735831
<b>Scale Factor</b>	0.999959245		
<b>Elevation Adjust. Factor</b>	0.9999801379		
<b>Combined Adjust. Factor</b>	0.9999393837		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY -5 FOR 10.71 KM. (6.65 MI.) TO THE STATION ON THE RIGHT. 36.30 METERS SOUTH OF THE CENTER OF "RED HILL ROAD", 15.15 METERS EAST OF THE CENTER OF HWY-5 AND 1.10 METERS WEST OF A WITNESS POST SET ALONG A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	8	13.33	43.7
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    120009</p> <p>Ref Mon # 2    430001</p> <p>Ref Mon # 3    730001</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730006A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	95,882.6281				
<b>Easting (M)</b>	393,143.8130				
<b>Elevation (M)*</b>	133.994				
<b>Northing (SFT)</b>	314,574.9224				
<b>Easting (SFT)</b>	1,289,839.3265				
<b>Elevation (SFT)*</b>	439.612				

  

<b>Convergence Angle</b>	0	2	37.7190460
<b>Scale Factor</b>	0.999958569		
<b>Elevation Adjust. Factor</b>	0.9999789724		
<b>Combined Adjust. Factor</b>	0.9999375423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 11.35 KM. (7.05 MI.) TO THE STATION ON THE LEFT. 36.8 METERS SOUTH OF A FIELD ENTRANCE, 17.53 METERS WEST OF THE CENTER OF HWY-5 AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	269	1.75	5.7
MK # 2	CULVERT	4	33.30	109.3
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	120009							
Ref Mon # 2	430001							
Ref Mon # 3	730001							
Comments								

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730007	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748,050067
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	98,519.2421	
<b>Easting (M)</b>	393,519.6270	
<b>Elevation (M)*</b>	183.113	
<b>Northing (SFT)</b>	323,225.2135	
<b>Easting (SFT)</b>	1,291,072.3096	
<b>Elevation (SFT)*</b>	600.763	

  

<b>Convergence Angle</b>	0	2	29.1177087
<b>Scale Factor</b>	0.999955873		
<b>Elevation Adjust. Factor</b>	0.9999712644		
<b>Combined Adjust. Factor</b>	0.9999271387		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	282	1.43	4.7
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	730007A
<b>Geodetic Azimuth</b>	9 19 08.51297
<b>Grid Azimuth</b>	9 21 37.61889

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	120009
<b>Ref Mon # 2</b>	430001
<b>Ref Mon # 3</b>	730001

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730007A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	99,227.4451				
<b>Easting (M)</b>	393,636.3670				
<b>Elevation (M)*</b>	196.525				
<b>Northing (SFT)</b>	325,548.7095				
<b>Easting (SFT)</b>	1,291,455.3141				
<b>Elevation (SFT)*</b>	644.766				

  

<b>Convergence Angle</b>	0	2	26.4430147
<b>Scale Factor</b>	0.999955178		
<b>Elevation Adjust. Factor</b>	0.9999691598		
<b>Combined Adjust. Factor</b>	0.9999243392		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	20	6.75	22.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	730007
<b>Geodetic Azimuth</b>	189 19 11.16415
<b>Grid Azimuth</b>	189 21 37.6189

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> 120009	
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730008	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 5	<b>Job Number:</b> 001748,050067
--------------------------	-------------------------------------	------------------------------	------------------------	-------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	110,747.0291	
<b>Easting (M)</b>	392,632.2320	
<b>Elevation (M)*</b>	193.128	
<b>Northing (SFT)</b>	363,342.5446	
<b>Easting (SFT)</b>	1,288,160.9145	
<b>Elevation (SFT)*</b>	633.621	

  

<b>Convergence Angle</b>	0	2	49.7688367
<b>Scale Factor</b>	0.999945606		
<b>Elevation Adjust. Factor</b>	0.9999696928		
<b>Combined Adjust. Factor</b>	0.9999153005		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CHAIN LINK FENCE CORNER POST	95	6.80	22.3
<b>MK # 2</b>	SOUTH END OF A CONCRETE HEADWALL	73	15.03	49.3
<b>MK # 3</b>	22" (0.56 M) SYCAMORE TREE	167	13.87	45.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="120009"/>	ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.
<b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="430001"/>	
<b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="730001"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730008A	<b>Date Monumented</b> 12/5/1995	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 001748
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	110,751.4551		
<b>Easting (M)</b>	393,411.3640		
<b>Elevation (M)*</b>	200.629		
<b>Northing (SFT)</b>	363,357.0656		
<b>Easting (SFT)</b>	1,290,717.1167		
<b>Elevation (SFT)*</b>	658.230		

  

<b>Convergence Angle</b>	0	2	31.8160827
<b>Scale Factor</b>	0.999945603		
<b>Elevation Adjust. Factor</b>	0.9999685158		
<b>Combined Adjust. Factor</b>	0.9999141205		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER POST	290	32.15	105.5
<b>MK # 2</b>	WATER VALVE COVER	87	17.97	59.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 120009	ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.
<b>Ref Mon # 2</b> 430001	
<b>Ref Mon # 3</b> 730001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730009-96	<b>Date Monumented</b> 1/15/1997	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050045
-----------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,954.2901	
<b>Easting (M)</b>	423,208.5610	
<b>Elevation (M)*</b>	69.792	
<b>Northing (SFT)</b>	337,775.8668	
<b>Easting (SFT)</b>	1,388,476.7539	
<b>Elevation (SFT)*</b>	228.976	

  

<b>Convergence Angle</b>	0	8	54.3077407
<b>Scale Factor</b>	0.999951749		
<b>Elevation Adjust. Factor</b>	0.9999890475		
<b>Combined Adjust. Factor</b>	0.9999407970		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGHWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGHWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HOLMES DRIVE AND THE STATION ON THE LEFT. THE STATION IS 16.136 METERS NORTH OF THE CENTER OF HOLMES DRIVE, 15.506 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO "DAD'S AUTO SALES", 8.764 METERS WEST OF THE CENTER OF STATE HIGHWAY 16 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	106	18.87	61.9
MK # 2	TELEPHONE JUNCTION BOX	256	33.12	108.7
MK # 3	COMBINATION POLE	3	27.60	90.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> HEBEPORT <b>Ref Mon # 3</b> NEWSPORT	ELEVATION BY THREE WIRE LEVELING FROM TBM-907 ELEVATION = 71.574 METERS NAVD88 DATUM ON JOB 050032. THIS ELEVATION WAS RUN BY THREE WIRE LEVELING FROM NGS PT "H 8 1931" CREW S5113, ELEVATION = 80.529 METERS NAVD88 DATUM.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730009A-96	<b>Date Monumented</b> 1/15/1997	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050045
------------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,423.8321	
<b>Easting (M)</b>	423,205.2490	
<b>Elevation (M)*</b>	68.789	
<b>Northing (SFT)</b>	336,035.5225	
<b>Easting (SFT)</b>	1,388,465.8878	
<b>Elevation (SFT)*</b>	225.685	

  

<b>Convergence Angle</b>	0	8	54.1998650
<b>Scale Factor</b>	0.999952221		
<b>Elevation Adjust. Factor</b>	0.9999892049		
<b>Combined Adjust. Factor</b>	0.9999414264		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGHWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGHWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 16, 11.351 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730009A 1998" SET ON TOP OF AN IRON ROD 0.31 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	217	32.39	106.3
MK # 2	TELEPHONE JUNCTION BOX	294	22.07	72.4
MK # 3	COMBINATION POLE	202	18.88	62.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEARPORT</p> <p>Ref Mon # 2    HEBEPORT</p> <p>Ref Mon # 3    NEWSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730010	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 001848
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	84,742.3631	
<b>Easting (M)</b>	399,878.5680	
<b>Elevation (M)*</b>	77.917	
<b>Northing (SFT)</b>	278,025.5696	
<b>Easting (SFT)</b>	1,311,934.9352	
<b>Elevation (SFT)*</b>	255.633	

  

<b>Convergence Angle</b>	0	0	2.7899435
<b>Scale Factor</b>	0.999971833		
<b>Elevation Adjust. Factor</b>	0.9999877724		
<b>Combined Adjust. Factor</b>	0.9999596058		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN BRACE FENCE POST	251	7.10	23.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> AHTD LR1 <b>Ref Mon # 3</b> EARNHART HALE	LEVELS TO THE STATION WAS RUN BY CREW S5103

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 5 49.8443712
<b>Longitude</b>	92 0 4.7945484
<b>Ellipsoid Height (M):</b>	50.611
<b>Geoid Height (M):</b>	-27.306

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO EAST ON U.S. HIGHWAY 64 FOR 9.85 KM (6.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.32 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 2.32 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "730010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730010A	<b>Date Monumented</b> 3/3/1999	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 001848
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	84,789.0821				
<b>Easting (M)</b>	399,381.2110				
<b>Elevation (M)*</b>	76.510				
<b>Northing (SFT)</b>	278,178.8469				
<b>Easting (SFT)</b>	1,310,303.1898				
<b>Elevation (SFT)*</b>	251.017				

  

<b>Convergence Angle</b>	0	0	14.2169749
<b>Scale Factor</b>	0.999971771		
<b>Elevation Adjust. Factor</b>	0.9999879932		
<b>Combined Adjust. Factor</b>	0.9999597646		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER FENCE POST	82	23.50	77.1
<b>MK # 2</b>	EAST END OF CMP	255	25.00	82.0
<b>MK # 3</b>	POWER POLE	273	21.60	70.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	LEVELS TO THE STATION WAS RUN BY CREW S5103
<b>Ref Mon # 2</b> AHTD LR1	
<b>Ref Mon # 3</b> EARNHART HALE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730012	<b>Date Monumented</b> 10/21/1999	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050044
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	100,726.4011	
<b>Easting (M)</b>	425,819.0790	
<b>Elevation (M)*</b>	70.056	
<b>Northing (SFT)</b>	330,466.5343	
<b>Easting (SFT)</b>	1,397,041.4284	
<b>Elevation (SFT)*</b>	229.842	

  

<b>Convergence Angle</b>	0	9	54.2590284
<b>Scale Factor</b>	0.999953781		
<b>Elevation Adjust. Factor</b>	0.9999890061		
<b>Combined Adjust. Factor</b>	0.9999427876		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGHWAY 167 AND STATE HIGHWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 1.45 KM (0.90 MI) TO THE WEST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 14.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 11.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS. ELEVATION ON THIS POINT WAS ESTABLISHED BY THREE WIRE LEVELING BY CREW S5102 FROM AN AHTD BENCH MARK DISK SET IN BRIDGE # 6601.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	AHTD BENCH MARK DISK	103	13.70	44.9
<b>MK # 2</b>	PUNCH IN TOP OF METAL GUARD RAIL POS	126	4.00	13.1
<b>MK # 3</b>	PUNCH IN TOP OF METAL GUARD RAIL POS	229	3.20	10.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	SEARPORT
Ref Mon # 2	730009
Ref Mon # 3	730011

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730012A	<b>Date Monumented</b> 10/21/1999	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050044
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	100,573.2051				
<b>Easting (M)</b>	426,497.1690				
<b>Elevation (M)*</b>	68.451				
<b>Northing (SFT)</b>	329,963.9237				
<b>Easting (SFT)</b>	1,399,266.1286				
<b>Elevation (SFT)*</b>	224.577				

  

<b>Convergence Angle</b>	0	10	9.8556188
<b>Scale Factor</b>	0.999953927		
<b>Elevation Adjust. Factor</b>	0.9999892579		
<b>Combined Adjust. Factor</b>	0.9999431854		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS PIPELINE WARNING SIGN	302	5.04	16.5
<b>MK # 2</b>	BURIED CABLE WARNING SIGN	93	3.97	13.0
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	
<b>Ref Mon # 2</b> 730009	
<b>Ref Mon # 3</b> 730011	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 14 22.2860472
<b>Longitude</b>	91 42 31.9564656
<b>Ellipsoid Height (M):</b>	41.244
<b>Geoid Height (M):</b>	-27.246

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGHWAY 167 AND STATE HIGHWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 0.75 KM (0.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730013	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 385	<b>Job Number:</b> 050010
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,572.6805	
<b>Easting (M)</b>	430,059.7758	
<b>Elevation (M)*</b>	68.097	
<b>Northing (SFT)</b>	326,681.3693	
<b>Easting (SFT)</b>	1,410,954.4478	
<b>Elevation (SFT)*</b>	223.415	

  

<b>Convergence Angle</b>	0	11	31.7743337
<b>Scale Factor</b>	0.999954891		
<b>Elevation Adjust. Factor</b>	0.9999893135		
<b>Combined Adjust. Factor</b>	0.9999442050		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO SOUTHWEST ON STATE HIGHWAY 385 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 385, 6.07 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USG&amp;GS BENCH MARK M 8.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HEBEPORT</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8ELEV. TBM SQ NW CORNER BRIDGE OVER BLACK CREEK = 213.838 FEET</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730013A	<b>Date Monumented</b> 6/28/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050010
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,956.5512	
<b>Easting (M)</b>	430,466.1797	
<b>Elevation (M)*</b>	68.767	
<b>Northing (SFT)</b>	327,940.7851	
<b>Easting (SFT)</b>	1,412,287.7912	
<b>Elevation (SFT)*</b>	225.613	

  

<b>Convergence Angle</b>	0	11	41.1569844
<b>Scale Factor</b>	0.999954523		
<b>Elevation Adjust. Factor</b>	0.9999892083		
<b>Combined Adjust. Factor</b>	0.9999437318		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO NORTHEAST ON NORTHEAST FRIST STREET FOR 0.24 KM ( 0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.20 METERS NORTHEAST OF THE CENTER OF EAST WEST POINT STREET, 11.40 METERS NORTHWEST OF NORTHEAST FRIST STREET, 4.98 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS,</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    HEBEPORT</p> <p>Ref Mon # 2    NEWSPOINT</p> <p>Ref Mon # 3    SEARPOINT</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8</p>
---	--

  

<b>AZ Mark Station</b>	730013
<b>Geodetic Azimuth</b>	226 49 40.76761
<b>Grid Azimuth</b>	226 37 59.65094

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730014	<b>Date Monumented</b> 11/14/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 50100, 050189, 050198, 05028
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 101,375.9894	<b>0.0020</b>	<b>Geoid Datum:</b> GEOID96
<b>Easting (M)</b> 420,323.1923	<b>0.0020</b>	<b>Latitude</b> 35 14 48.8596812
<b>Elevation (M)*</b> 90.035		<b>Longitude</b> 91 46 36.0830208
<b>Northing (SFT)</b> 332,597.7252		<b>Ellipsoid Height (M):</b> 62.766 0.0090
<b>Easting (SFT)</b> 1,379,010.3401		<b>Geoid Height (M):</b> -27.261
<b>Elevation (SFT)*</b> 295.390		

  

<b>Convergence Angle</b> 0 7 47.7985892	<b>Scale Factor</b> 0.999953165	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999858708	<b>Combined Adjust. Factor</b> 0.9999390364	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF QUARTER HORSE LANE, 5.90 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE OF STATE HIGHWAY 36 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK "G 8".</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b> Latitude 35 14 48.8597136	<b>Longitude</b> 91 46 36.0838488	
<b>Ellipsoid Height:</b> 62.784	<b>Grid Northing (Meters)</b> 101,375.9904	
<b>Grid Easting (Meters)</b> 420,323.1714		

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER METER COVER	113	2.75	9.0	<b>AZ Mark Station</b> 730014A
MK # 2	COMBINATION POLE	235	8.70	28.5	<b>Geodetic Azimuth</b> 82 22 04.719619
MK # 3	CENTER OF A MAN HOLE COVER	261	16.00	52.5	<b>Grid Azimuth</b> 82 14 16.869182

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> HEBEPORT <b>Ref Mon # 2</b> SEARPORT <b>Ref Mon # 3</b> NEWSREPORT	<b>Comments</b> 3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206. ELEV WAS UPDATED 10/13/14 DURING JOB 050280 FROM 295.424 TO 295.3897. NEW ELEV WAS RAN FROM GPS 730014A AND NGS BM H 206, J 206, K 206, P 206, Q 206.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730014A	<b>Date Monumented</b> 11/14/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050100, 050189, 050280
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,451.1816	
<b>Easting (M)</b>	420,874.8036	
<b>Elevation (M)*</b>	88.026	
<b>Northing (SFT)</b>	332,844.4183	
<b>Easting (SFT)</b>	1,380,820.0848	
<b>Elevation (SFT)*</b>	288.798	

  

<b>Convergence Angle</b>	0	8	0.4995453
<b>Scale Factor</b>	0.999953097		
<b>Elevation Adjust. Factor</b>	0.9999861861		
<b>Combined Adjust. Factor</b>	0.9999392837		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.25 KM (2.02 MI) TO THE BETHEL MISSIONARY BAPTIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF THE WEST ENTRANCE TO THE CHURCH, 8.80 METERS NORTH OF THE WEST BOUND LANE OF STATE HIGHWAY 36 AND 1.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&amp;GS BENCH MARK "G 8".</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	47	10.10	33.1
MK # 2	SOUTH END OF BRICH SIGN TO CHURCH	90	7.38	24.2
MK # 3	EAST END OF CMP	246	6.00	19.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> HEBEPORT <b>Ref Mon # 2</b> SEARPORT <b>Ref Mon # 3</b> NEWSREPORT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730015	<b>Date Monumented</b> 11/15/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 67	<b>Job Number:</b> 0087,012154,050263Mobile L
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,783.4042	
<b>Easting (M)</b>	407,865.9965	
<b>Elevation (M)*</b>	73.930	
<b>Northing (SFT)</b>	268,317.7186	
<b>Easting (SFT)</b>	1,338,140.3569	
<b>Elevation (SFT)*</b>	242.552	

  

<b>Convergence Angle</b>	0	3	0.6645105
<b>Scale Factor</b>	0.999975872		
<b>Elevation Adjust. Factor</b>	0.9999883981		
<b>Combined Adjust. Factor</b>	0.9999642704		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	4	13.7137044
<b>Longitude</b>	91	54	49.5269244
<b>Ellipsoid Height:</b>	46.740		
<b>Grid Northing (Meters)</b>	81,783.4016		
<b>Grid Easting (Meters)</b>	407,865.9748		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTHEAST ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.00 METERS SOUTHEAST OF THE SOUTH BOUND LANE, 12.75 METERS NORTHWEST OF THE NORTH BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.</p>			
<p>NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISLED "X" IN CONCRETE DROP INLET	49	4.50	14.8
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEARPORT</p> <p>Ref Mon # 2    AHTD LR 1</p> <p>Ref Mon # 3    730010</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3WIRE FROM NGS PT 18 BLS</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730015A	<b>Date Monumented</b> 11/15/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 67	<b>Job Number:</b> 050096,050087
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	82,186.7880	
<b>Easting (M)</b>	408,367.8139	
<b>Elevation (M)*</b>	75.679	
<b>Northing (SFT)</b>	269,641.1536	
<b>Easting (SFT)</b>	1,339,786.7361	
<b>Elevation (SFT)*</b>	248.289	

  

<b>Convergence Angle</b>	0	3	12.1987703
<b>Scale Factor</b>	0.999975310		
<b>Elevation Adjust. Factor</b>	0.9999881237		
<b>Combined Adjust. Factor</b>	0.9999634340		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 15.03 METERS SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 10.84 METERS NORTHWEST OF THE NORTH BOUND LAND AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015A 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.</p>			
<p>NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISLED "X" IN CONCRETE DROD INLET	338	2.20	7.2
MK # 2	NONE			
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEARPORT <b>Ref Mon # 2</b> AHTD LR 1 <b>Ref Mon # 3</b> 730010	ELEVATION BY 3WIRE FROM NGS PT 18 BLS

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730016	<b>Date Monumented</b> 11/15/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 0087, 012154Mobie LiDAR-C
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,202.2532	
<b>Easting (M)</b>	403,391.2483	
<b>Elevation (M)*</b>	80.325	
<b>Northing (SFT)</b>	272,972.7257	
<b>Easting (SFT)</b>	1,323,459.4538	
<b>Elevation (SFT)*</b>	263.532	

  

<b>Convergence Angle</b>	0	1	17.9017835
<b>Scale Factor</b>	0.999973907		
<b>Elevation Adjust. Factor</b>	0.9999873946		
<b>Combined Adjust. Factor</b>	0.9999613019		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 5.70 KM (3.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 38.90 METERS SOUTH OF THE CENTER OF VERNON HARVEY ROAD, 26.65 METERS SOUTH-SOUTHWEST OF THE SOUTH END OF A CONCRETE HEADWALL, 13.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.21 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    SEARPORT</p> <p><b>Ref Mon # 2</b>    AHTD LR 1</p> <p><b>Ref Mon # 3</b>    730010</p>	<p style="text-align: center;"><b>Comments</b></p> <p>UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 263.6251'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730016A	<b>Date Monumented</b> 11/15/2000	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 0087, 012154Mobie LiDAR-C
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	83,744.8090	
<b>Easting (M)</b>	403,428.2975	
<b>Elevation (M)*</b>	79.605	
<b>Northing (SFT)</b>	274,752.7609	
<b>Easting (SFT)</b>	1,323,581.0060	
<b>Elevation (SFT)*</b>	261.172	

  

<b>Convergence Angle</b>	0	1	18.7576144
<b>Scale Factor</b>	0.999973170		
<b>Elevation Adjust. Factor</b>	0.9999875075		
<b>Combined Adjust. Factor</b>	0.9999606778		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	169	23.25	76.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> SEARPORT	UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 261.2268'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
<b>Ref Mon # 2</b> AHTD LR 1	
<b>Ref Mon # 3</b> 730010	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 09
<b>Latitude</b>	35 5 17.4523272
<b>Longitude</b>	91 57 44.6541804
<b>Ellipsoid Height (M):</b>	52.370
<b>Geoid Height (M):</b>	-27.268

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 6.23 KM (3.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730017	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 67	<b>Job Number:</b> 050114
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 93,716.6671		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 421,689.6460		<b>Latitude</b> 35 10 40.2109680
<b>Elevation (M)*</b> 		<b>Longitude</b> 91 45 42.7636332
<b>Northing (SFT)</b> 307,468.7653		<b>Ellipsoid Height (M):</b> 40.965
<b>Easting (SFT)</b> 1,383,493.4469		<b>Geoid Height (M):</b> -27.246
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 8 18.8250944	<b>Location Description</b>  TO REACH THE STQATION FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 67B (EXIT 42), GO SOUTH ON HIGHWAY 67 FOR 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.20 METERS NORTHEAST OF THE NORTHEAST CORNER OF THE BRIDGE ON THE SOUTH BOUND LANES. THE STATION IS 0.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999960936	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 			
<b>Ellipsoid Height:</b> 			
<b>Grid Northing (Meters)</b> 			
<b>Grid Easting (Meters)</b> 			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE CORNER OF BRIDGE SOUTH BOUND LA NEC		4.20	13.8
MK # 2	NW CORNER OF BRIDGE NORTH BOUND L ANEC		11.80	38.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> 
<b>Ref Mon # 1</b> BUTLER	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> ROUCH	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730017A	<b>Date Monumented</b> 12/16/2002	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 67	<b>Job Number:</b> 050114
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	93,176.2881	
<b>Easting (M)</b>	421,201.7970	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	305,695.8719	
<b>Easting (SFT)</b>	1,381,892.8957	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	8	7.5760592
<b>Scale Factor</b>	0.999961537		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EDGE OF CONCRETE ROAD	314	11.50	37.7
<b>MK # 2</b>	EDGE OF CONCRETE ROAD	134	6.80	22.3
<b>MK # 3</b>	DROP INLET	310	19.80	65.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> ROUCH	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 22.7135064
<b>Longitude</b>	91 46 2.0952228
<b>Ellipsoid Height (M):</b>	41.815
<b>Geoid Height (M):</b>	-27.246

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 67B (EXIT 42) GO SOUTH ON HIGHWAY 67 2.90 MILES TO THE STATION ON THE LEFT. THE STATION IS 0.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730018	<b>Date Monumented</b> 11/10/2004	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050163
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	110,912.5991				
<b>Easting (M)</b>	390,483.3030				
<b>Elevation (M)*</b>	195.129				
<b>Northing (SFT)</b>	363,885.7522				
<b>Easting (SFT)</b>	1,281,110.6366				
<b>Elevation (SFT)*</b>	640.186				

  

<b>Convergence Angle</b>	0	3	39.2886936
<b>Scale Factor</b>	0.999945494		
<b>Elevation Adjust. Factor</b>	0.9999693788		
<b>Combined Adjust. Factor</b>	0.9999148745		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 FOR 0.40 MILES TO THE STATION ON THE RIGHT, 8 METERS NORTH OF CENTERLINE OF OLD SPRINGS ROAD, IN FRONT OF ST. MARY'S CHURCH, AND NORTHWEST 14.30 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730018 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" CMP	134	5.15	16.9
MK # 2	POWER POLE WITH LIGHT	64	15.80	51.8
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: LROC</p> <p>Ref Mon # 2: BUTLER</p> <p>Ref Mon # 3: EARNHART - HALE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730018A	<b>Date Monumented</b> 11/10/2004	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050163
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	111,205.4731	
<b>Easting (M)</b>	390,927.6280	
<b>Elevation (M)*</b>	198.683	
<b>Northing (SFT)</b>	364,846.6230	
<b>Easting (SFT)</b>	1,282,568.3929	
<b>Elevation (SFT)*</b>	651.846	

  

<b>Convergence Angle</b>	0	3	29.0571731
<b>Scale Factor</b>	0.999945294		
<b>Elevation Adjust. Factor</b>	0.9999688211		
<b>Combined Adjust. Factor</b>	0.9999141168		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 FOR 0.10 MILES TO THE STATION ON THE RIGHT, NORTHWEST 11.15 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 1.15 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730018A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD CONCRETE RIGHT MARKER	69	16.85	55.3
MK # 2	WOOD FENCE POST	245	24.70	81.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: LROC</p> <p>Ref Mon # 2: BUTLER</p> <p>Ref Mon # 3: EARNHART - HALE</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730019	<b>Date Monumented</b> 10/13/2004	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050162,050188,050279
--------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,678.8361	
<b>Easting (M)</b>	421,570.1670	
<b>Elevation (M)*</b>	122.959	
<b>Northing (SFT)</b>	346,714.6481	
<b>Easting (SFT)</b>	1,383,101.4562	
<b>Elevation (SFT)*</b>	403.408	

  

<b>Convergence Angle</b>	0	8	16.7398246
<b>Scale Factor</b>	0.999949435		
<b>Elevation Adjust. Factor</b>	0.9999807041		
<b>Combined Adjust. Factor</b>	0.9999301401		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fence corner post	122	17.30	56.8
<b>MK # 2</b>	Telephone riser	124	18.50	60.7
<b>MK # 3</b>	Power pole	312	25.85	84.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="Butler"/> <b>Ref Mon # 2</b> <input type="text" value="LROC"/> <b>Ref Mon # 3</b> <input type="text" value="480016"/>	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

  

Location Description	
To reach the station from the junction of state highway 16 and state highway 310 west, north of Searcy, go east on highway 16 for 5.10 miles to the station on the left. 13.85 meters west of the center of the highway and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "730019 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730019A	<b>Date Monumented</b> 10/13/2004	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050162,050188,050279
---------------------------	--------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,106.5931	
<b>Easting (M)</b>	420,951.2490	
<b>Elevation (M)*</b>	118.742	
<b>Northing (SFT)</b>	348,118.0475	
<b>Easting (SFT)</b>	1,381,070.8894	
<b>Elevation (SFT)*</b>	389.572	

  

<b>Convergence Angle</b>	0	8	2.5098450
<b>Scale Factor</b>	0.999949088		
<b>Elevation Adjust. Factor</b>	0.9999813659		
<b>Combined Adjust. Factor</b>	0.9999304548		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Gate post	333	17.80	58.4
<b>MK # 2</b>	CMP	003	15.70	51.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input type="text" value="Butler"/> <b>Ref Mon # 2</b> <input type="text" value="LROC"/> <b>Ref Mon # 3</b> <input type="text" value="480016"/>	<b>Comments</b>  3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
--	---

  

Location Description	
To reach the station from the junction of state highways 16 and 31 west just north of Searcy, go east on highway 16 for 4.70 miles to the station on the right. 20.40 meters southwest of an asphalt drive, 22.80 meters southwest of the center of the highway and 0.50 meters northeast of a witness post. The station mark is a standard 64mm cap stamped "730019A 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.	

  

<b>AZ Mark Station</b>	730019
<b>Geodetic Azimuth</b>	124 47 02
<b>Grid Azimuth</b>	124 38 59

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730020	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	110,367.1211	
<b>Easting (M)</b>	419,228.6180	
<b>Elevation (M)*</b>	67.629	
<b>Northing (SFT)</b>	362,096.1298	
<b>Easting (SFT)</b>	1,375,419.2242	
<b>Elevation (SFT)*</b>	221.879	

  

<b>Convergence Angle</b>	0	7	23.0483284
<b>Scale Factor</b>	0.999945882		
<b>Elevation Adjust. Factor</b>	0.9999893869		
<b>Combined Adjust. Factor</b>	0.9999352695		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Six foot culvert	169	15.42	50.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
<b>Ref Mon # 2</b> Batesville CORS ARP	
<b>Ref Mon # 3</b> 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730020A	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	110,908.2671	
<b>Easting (M)</b>	419,268.0330	
<b>Elevation (M)*</b>	71.249	
<b>Northing (SFT)</b>	363,871.5396	
<b>Easting (SFT)</b>	1,375,548.5383	
<b>Elevation (SFT)*</b>	233.756	

  

<b>Convergence Angle</b>	0	7	23.9833274
<b>Scale Factor</b>	0.999945507		
<b>Elevation Adjust. Factor</b>	0.9999888189		
<b>Combined Adjust. Factor</b>	0.9999343265		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	162	23.32	76.5
<b>MK # 2</b>	Fence corner	355	34.75	114.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
<b>Ref Mon # 2</b> Batesville CORS ARP	
<b>Ref Mon # 3</b> 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730021	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	116,235.5250	
<b>Easting (M)</b>	417,550.1150	
<b>Elevation (M)*</b>	97.087	
<b>Northing (SFT)</b>	381,349.3849	
<b>Easting (SFT)</b>	1,369,912.3356	
<b>Elevation (SFT)*</b>	318.526	

  

<b>Convergence Angle</b>	0	6	44.6391468
<b>Scale Factor</b>	0.999942199		
<b>Elevation Adjust. Factor</b>	0.9999847641		
<b>Combined Adjust. Factor</b>	0.9999269640		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	261	20.08	65.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2 Batesville CORS ARP	
Ref Mon # 3 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730021A	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	115,842.1761	
<b>Easting (M)</b>	417,536.6070	
<b>Elevation (M)*</b>	96.910	
<b>Northing (SFT)</b>	380,058.8728	
<b>Easting (SFT)</b>	1,369,868.0181	
<b>Elevation (SFT)*</b>	317.946	

  

<b>Convergence Angle</b>	0	6	44.3099286
<b>Scale Factor</b>	0.999942419		
<b>Elevation Adjust. Factor</b>	0.9999847919		
<b>Combined Adjust. Factor</b>	0.9999272118		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	End of a fence	110	4.26	14.0
<b>MK # 2</b>	Water meter	140	3.72	12.2
<b>MK # 3</b>	South gate post	289	18.60	61.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
<b>Ref Mon # 2</b> Batesville CORS ARP	
<b>Ref Mon # 3</b> 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730022	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	117,921.5311	
<b>Easting (M)</b>	416,675.5490	
<b>Elevation (M)*</b>	100.474	
<b>Northing (SFT)</b>	386,880.8900	
<b>Easting (SFT)</b>	1,367,043.0303	
<b>Elevation (SFT)*</b>	329.640	

  

<b>Convergence Angle</b>	0	6	24.5474911
<b>Scale Factor</b>	0.999941297		
<b>Elevation Adjust. Factor</b>	0.9999842325		
<b>Combined Adjust. Factor</b>	0.9999255305		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	98	15.70	51.5
<b>MK # 2</b>	Light pole with guy	345	28.77	94.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
<b>Ref Mon # 2</b> Batesville CORS ARP	
<b>Ref Mon # 3</b> 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730022A	<b>Date Monumented</b> 5/24/2007	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050188,050279
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	118,177.5073	0.0050	
<b>Easting (M)</b>	416,205.5739	0.0050	
<b>Elevation (M)*</b>	101.531		
<b>Northing (SFT)</b>	387,720.7052		
<b>Easting (SFT)</b>	1,365,501.1204		
<b>Elevation (SFT)*</b>	333.105		

  

<b>Convergence Angle</b>	0	6	13.7203205
<b>Scale Factor</b>	0.999941166		
<b>Elevation Adjust. Factor</b>	0.9999840668		
<b>Combined Adjust. Factor</b>	0.9999252337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	23	54.3369588
<b>Longitude</b>	91	49	17.7579048
<b>Ellipsoid Height:</b>	74.180		
<b>Grid Northing (Meters)</b>	118,177.5021		
<b>Grid Easting (Meters)</b>	416,205.5650		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Northeast corner of metal building	150	16.28	53.4
<b>MK # 2</b>	Combination pole with guy	295	16.22	53.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
<b>Ref Mon # 2</b> Batesville CORS ARP	
<b>Ref Mon # 3</b> 730019, 730019A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730023	<b>Date Monumented</b> 10/28/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 267	<b>Job Number:</b> 050189
--------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	94,284.1711		
<b>Easting (M)</b>	417,009.9470		
<b>Elevation (M)*</b>	77.017		
<b>Northing (SFT)</b>	309,330.6514		
<b>Easting (SFT)</b>	1,368,140.1344		
<b>Elevation (SFT)*</b>	252.680		

  

<b>Convergence Angle</b>	0	6	31.2249972
<b>Scale Factor</b>	0.999960300		
<b>Elevation Adjust. Factor</b>	0.9999879137		
<b>Combined Adjust. Factor</b>	0.9999482141		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone box	52	20.00	65.6
<b>MK # 2</b>	Power pole	129	26.50	86.9
<b>MK # 3</b>	36 inch Oak tree	253	45.00	147.6

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> Hebeport, G 8 <b>Ref Mon # 3</b> ARLR	<b>Comments</b> 3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
---	--

  

Location Description			
To reach the station from the junction of highways 267 and 13 on the southwest side of Searcy go south on hwy-267 for 0.15 miles to the station on the right. 33.0 feet north of the center of hwy-267, 171.0 feet east of the center of "Coppers Spring Road" and 89.4 feet west of the center of a driveway. The station mark is a 2 1/2 inch cap set on top of a 5/8 inch by 4 foot long rebar and stamped "730023 2009" and is 0.20 feet below the surface.			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	10	58.9541340
<b>Longitude</b>	91	48	47.6755740
<b>Ellipsoid Height (M):</b>	49.760		
<b>Geoid Height (M):</b>	-27.259		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730023A	<b>Date Monumented</b> 10/28/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 267	<b>Job Number:</b> 050189
---------------------------	--------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	94,028.0711				
<b>Easting (M)</b>	416,563.9480				
<b>Elevation (M)*</b>	84.841				
<b>Northing (SFT)</b>	308,490.4299				
<b>Easting (SFT)</b>	1,366,676.8861				
<b>Elevation (SFT)*</b>	278.350				

  

<b>Convergence Angle</b>	0	6	20.9562641
<b>Scale Factor</b>	0.999960580		
<b>Elevation Adjust. Factor</b>	0.9999866858		
<b>Combined Adjust. Factor</b>	0.9999472663		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	235	24.00	78.7
<b>MK # 2</b>	Combination pole w/tel box	63	35.00	114.8
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
<b>Ref Mon # 2</b> Hebeport G8	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 10 50.6707644
<b>Longitude</b>	91 49 5.3225040
<b>Ellipsoid Height (M):</b>	57.580
<b>Geoid Height (M):</b>	-27.260

Location Description
<p>To reach the station from the junction of highways 267 and 13 on the southwest side of Searcy go south on hwy-267 for 0.35 miles to the station on the left. 33.7 feet southwest of the center of hwy-267, 8.20 feet northeast of the center of a barbed wire gap. The station mark is a 2 1/2 inch cap stamped "730023A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730024	<b>Date Monumented</b> 11/2/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	97,262.6821				
<b>Easting (M)</b>	418,048.7860				
<b>Elevation (M)*</b>	110.552				
<b>Northing (SFT)</b>	319,102.6495				
<b>Easting (SFT)</b>	1,371,548.3921				
<b>Elevation (SFT)*</b>	362.703				

  

<b>Convergence Angle</b>	0	6	55.2559162
<b>Scale Factor</b>	0.999957153		
<b>Elevation Adjust. Factor</b>	0.9999826511		
<b>Combined Adjust. Factor</b>	0.9999398048		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water valve	55	20.36	66.8
<b>MK # 2</b>	Combination pole	357	34.44	113.0
<b>MK # 3</b>	Water meter	275	4.75	15.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> ARLR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    12    35.5410000
<b>Longitude</b>	91    48    6.3781776
<b>Ellipsoid Height (M):</b>	83.291
<b>Geoid Height (M):</b>	-27.261

  

Location Description
<p>To reach the station from the us 167 and state highway 36 in Searcy go west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go 2.30 miles to Honey Hill Loop on the left, turn left and go 0.70 miles on Honey Hill Loop to the station on the right at the top of the second hill. 21.6 feet west of the center of the road, 85.2 feet south of the center of a gravel drive and 43.7 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730024 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730024A	<b>Date Monumented</b> 11/2/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	97,600.2032	
<b>Easting (M)</b>	418,060.8740	
<b>Elevation (M)*</b>	107.963	
<b>Northing (SFT)</b>	320,210.0000	
<b>Easting (SFT)</b>	1,371,588.0508	
<b>Elevation (SFT)*</b>	354.208	

  

<b>Convergence Angle</b>	0	6	55.5496731
<b>Scale Factor</b>	0.999956809		
<b>Elevation Adjust. Factor</b>	0.9999830574		
<b>Combined Adjust. Factor</b>	0.9999398671		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fence corner	167	23.80	78.1
<b>MK # 2</b>	Telephone box	201	23.22	76.2
<b>MK # 3</b>	Power pole	229	26.10	85.6

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ARLR	<b>Comments</b> 3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
--	---

  

Location Description	
To reach the station from the us 167 and state highway 36 in Searcy go west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go 2.30 miles to Honey Hill Loop on the left, turn left and go 0.50 miles on Honey Hill Loop to the station on the left at the top of the first hill. 10.00 feet east of the center of the road, 91.00 feet north of the center of a gravel drive, 139 feet south of the center of a gravel drive and 13.6 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730024A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.	

  

<b>AZ Mark Station</b>	730024
<b>Geodetic Azimuth</b>	182 09 59
<b>Grid Azimuth</b>	182 03 04

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730025	<b>Date Monumented</b> 11/2/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	98,928.3621	
<b>Easting (M)</b>	419,233.5290	
<b>Elevation (M)*</b>	112.969	
<b>Northing (SFT)</b>	324,567.4680	
<b>Easting (SFT)</b>	1,375,435.3364	
<b>Elevation (SFT)*</b>	370.632	

  

<b>Convergence Angle</b>	0	7	22.5959421
<b>Scale Factor</b>	0.999955488		
<b>Elevation Adjust. Factor</b>	0.9999822718		
<b>Combined Adjust. Factor</b>	0.9999377606		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Combination pole	105	16.03	52.6
<b>MK # 2</b>	Power pole with 2 guy wires	125	19.35	63.5
<b>MK # 3</b>	Eight inch Pear tree	204	11.58	38.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> Hebeport, G 8 <b>Ref Mon # 3</b> ARLR	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

  

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35    13    29.5123476
Longitude	91    47    19.3940448
Ellipsoid Height (M):	85.701
Geoid Height (M):	-27.259

  

Location Description
To reach the station from the junction of US highway 167 and state highway 36 in Searcy go south and west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go west and then north for 1.60 miles to "Booth Road" on the right. Turn right on Booth road and go 0.30 miles to the station on the right at the southwest corner of the intersection of Booth road and Casey lane. 24.60 feet west of the center of Casey Ln., 19.30 feet north of the center of Booth road and 43.0 feet south of a witness post that is across Booth road. The station mark is a 2 1/2 inch cap stamped "730025 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730025A	<b>Date Monumented</b> 11/2/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	98,927.3661		
<b>Easting (M)</b>	418,771.8160		
<b>Elevation (M)*</b>	111.930		
<b>Northing (SFT)</b>	324,564.2003		
<b>Easting (SFT)</b>	1,373,920.5330		
<b>Elevation (SFT)*</b>	367.224		

  

<b>Convergence Angle</b>	0	7	11.9711307
<b>Scale Factor</b>	0.999955488		
<b>Elevation Adjust. Factor</b>	0.9999824348		
<b>Combined Adjust. Factor</b>	0.9999379236		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	318	1.62	5.3
<b>MK # 2</b>	Square telephone box	117	6.77	22.2
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
<b>Ref Mon # 2</b> Hebeport, G 8	
<b>Ref Mon # 3</b> ARLR	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    13    29.5117896
<b>Longitude</b>	91    47    37.6528992
<b>Ellipsoid Height (M):</b>	84.661
<b>Geoid Height (M):</b>	-27.261

  

Location Description
<p>To reach the station from the junction of US highway 167 and state highway 36 in Searcy go south and west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go west and then north for 1.60 miles to "Booth Road" and the station on the right. 57.2 feet east of the center of Honey Hill road, 14.5 feet south of the center of Booth road. The station mark is a 2 1/2 inch cap stamped "730025A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730026	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 16	<b>Job Number:</b> 050189, 050198
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,419.6641	
<b>Easting (M)</b>	423,218.6420	
<b>Elevation (M)*</b>	69.468	
<b>Northing (SFT)</b>	336,021.8480	
<b>Easting (SFT)</b>	1,388,509.8280	
<b>Elevation (SFT)*</b>	227.912	

  

<b>Convergence Angle</b>	0	8	54.5079296
<b>Scale Factor</b>	0.999952224		
<b>Elevation Adjust. Factor</b>	0.9999890984		
<b>Combined Adjust. Factor</b>	0.9999413229		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Sewer manhole	154	15.70	51.5
<b>MK # 2</b>	Combination pole with transformer	207	26.50	86.9
<b>MK # 3</b>	Combination pole with 3 guy wires	6	34.20	112.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT	Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.
<b>Ref Mon # 2</b> Hebeport, G 8	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   15   22.4985312
<b>Longitude</b>	91   44   41.4422916
<b>Ellipsoid Height (M):</b>	42.211
<b>Geoid Height (M):</b>	-27.255

Location Description
<p>To reach the station from the junction of highways 16-67B and Main street in the center of Searcy go west on hwy-16 for 0.80 miles to the station on the Right just past Dollar General. 72.5 feet east of the center of hwy-16, 138.0 feet north of the edge of a concrete parking lot, 26.25 feet north of a gravel driveway and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730026 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

<b>AZ Mark Station</b>	730026A
<b>Geodetic Azimuth</b>	358 48 00
<b>Grid Azimuth</b>	358 39 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730026A	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 16	<b>Job Number:</b> 050189, 050198
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,954.3911	
<b>Easting (M)</b>	423,206.0560	
<b>Elevation (M)*</b>	70.123	
<b>Northing (SFT)</b>	337,776.1981	
<b>Easting (SFT)</b>	1,388,468.5354	
<b>Elevation (SFT)*</b>	230.063	

  

<b>Convergence Angle</b>	0	8	54.2500761
<b>Scale Factor</b>	0.999951749		
<b>Elevation Adjust. Factor</b>	0.9999889955		
<b>Combined Adjust. Factor</b>	0.9999407450		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water valve	254	11.90	39.0
<b>MK # 2</b>	Center of manhole	242	16.30	53.5
<b>MK # 3</b>	Combination pole	2	35.50	116.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT	Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.
<b>Ref Mon # 2</b> Hebeport, G 8	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35   15   39.8514096
<b>Longitude</b>	91   44   41.8854156
<b>Ellipsoid Height (M):</b>	42.871
<b>Geoid Height (M):</b>	-27.256

Location Description
<p>To reach the station from the junction of highways 16-67B and Main street in the center of Searcy go west on hwy-16 for 1.10 miles to the station on the left in front of the First Community Bank at the northwest corner of the intersection with hwy-16 and Holes road. 38.0 feet west of the center of hwy-16, 75.5 feet south of the center of a concrete drive, 54.11 feet north of the center of Holmes road and 1.30 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730026A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

<b>AZ Mark Station</b>	730026
<b>Geodetic Azimuth</b>	178 48 00
<b>Grid Azimuth</b>	178 39 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730027	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189, 050198
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,214.1341	
<b>Easting (M)</b>	426,040.8590	
<b>Elevation (M)*</b>	64.493	
<b>Northing (SFT)</b>	338,628.3716	
<b>Easting (SFT)</b>	1,397,769.0516	
<b>Elevation (SFT)*</b>	211.592	

  

<b>Convergence Angle</b>	0	9	59.5299752
<b>Scale Factor</b>	0.999951528		
<b>Elevation Adjust. Factor</b>	0.9999898790		
<b>Combined Adjust. Factor</b>	0.9999414075		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North end of guard rail	355	9.80	32.2
<b>MK # 2</b>	Northwest corner of bridge	170	51.50	169.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205
<b>Ref Mon # 2</b> Hebeport, G 8	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730027A	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189, 050198
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,721.6011	
<b>Easting (M)</b>	426,024.7940	
<b>Elevation (M)*</b>	64.817	
<b>Northing (SFT)</b>	340,293.2863	
<b>Easting (SFT)</b>	1,397,716.3450	
<b>Elevation (SFT)*</b>	212.653	

  

<b>Convergence Angle</b>	0	9	59.1940576
<b>Scale Factor</b>	0.999951087		
<b>Elevation Adjust. Factor</b>	0.9999898282		
<b>Combined Adjust. Factor</b>	0.9999409157		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	335	18.80	61.7
<b>MK # 2</b>	North end of a 30 inch CMP	222	10.40	34.1
<b>MK # 3</b>	Center of Chain link gate	223	17.10	56.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> Hebeport, G 8 <b>Ref Mon # 3</b> ARLR	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

  

**Vertical Determined By:** 3rd Order - Digital Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    35    16    4.4959404

**Longitude**    91    42    50.2784748

**Ellipsoid Height (M):**    37.581   

**Geoid Height (M):**    -27.249

  

**Location Description**

To reach the station from the junction of highways 167 and 385 northeast of Searcy go west on hwy-385 for 0.20 miles to a "T" junction with "CW road straight ahead. Go straight ahead on CW road for 2.10 miles to Davis drive on the left and the station in the southwest corner of the junction. 43.0 feet west of the center of Davis drive, 45.0 feet north of a gravel drive, 33.8 feet east of a chain link fence and 2.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730027A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730028	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 67	<b>Job Number:</b> 050189, 050198
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,121.8531	
<b>Easting (M)</b>	429,904.3710	
<b>Elevation (M)*</b>	76.140	
<b>Northing (SFT)</b>	341,606.4464	
<b>Easting (SFT)</b>	1,410,444.5905	
<b>Elevation (SFT)*</b>	249.801	

  

<b>Convergence Angle</b>	0	11	28.5474616
<b>Scale Factor</b>	0.999950754		
<b>Elevation Adjust. Factor</b>	0.9999880514		
<b>Combined Adjust. Factor</b>	0.9999388060		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Bend in Right of way fence	44	25.00	82.0
MK # 2	Southeast edge of a yellow billboard	237	15.30	50.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARBT	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205
Ref Mon # 2    Hebeport, G 8	
Ref Mon # 3    ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730028A	<b>Date Monumented</b> 11/3/2009	<b>Monumented By</b> AHTD	<b>County</b> White	<b>Route</b> 385	<b>Job Number:</b> 050189, 050198
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,816.4621	
<b>Easting (M)</b>	429,767.7730	
<b>Elevation (M)*</b>	78.977	
<b>Northing (SFT)</b>	340,604.5094	
<b>Easting (SFT)</b>	1,409,996.4353	
<b>Elevation (SFT)*</b>	259.112	

  

<b>Convergence Angle</b>	0	11	25.3789559
<b>Scale Factor</b>	0.999951015		
<b>Elevation Adjust. Factor</b>	0.9999876060		
<b>Combined Adjust. Factor</b>	0.9999386216		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>The station is located at the southeast end of the highway 385 bridge over US highway 67/167 northeast of Searcy. 25.5 feet south of the center of hwy-385, 2.50 feet south of the guard rail and 1.00 foot north of a witness post. The station mark is a 2 1/2 inch cap stamped "730028A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of a bridge	302	2.80	9.2
MK # 2	East end of guard rail	103	20.50	67.3
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b> 3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205
Ref Mon # 1	ARBT	
Ref Mon # 2	Hebeport, G 8	
Ref Mon # 3		

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730029	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	105,573.9331	
<b>Easting (M)</b>	451,216.3238	
<b>Elevation (M)*</b>	65.251	
<b>Northing (SFT)</b>	346,370.4788	
<b>Easting (SFT)</b>	1,480,365.5557	
<b>Elevation (SFT)*</b>	214.076	

  

<b>Convergence Angle</b>	0	19	39.4373978
<b>Scale Factor</b>	0.999949619		
<b>Elevation Adjust. Factor</b>	0.9999897602		
<b>Combined Adjust. Factor</b>	0.9999393797		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST OF NORTHEAST BRIDGE CORNER	285	16.98	55.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730029A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	105,490.5340
<b>Easting (M)</b>	451,643.6801
<b>Elevation (M)*</b>	65.221
<b>Northing (SFT)</b>	346,096.8603
<b>Easting (SFT)</b>	1,481,767.6405
<b>Elevation (SFT)*</b>	213.980

  

<b>Convergence Angle</b>	0	19	49.2675014
<b>Scale Factor</b>	0.999949690		
<b>Elevation Adjust. Factor</b>	0.9999897648		
<b>Combined Adjust. Factor</b>	0.9999394553		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 7.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 32.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730029A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730030	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	106,657.8491		
<b>Easting (M)</b>	446,567.6441		
<b>Elevation (M)*</b>	64.866		
<b>Northing (SFT)</b>	349,926.6266		
<b>Easting (SFT)</b>	1,465,114.0124		
<b>Elevation (SFT)*</b>	212.813		

  

<b>Convergence Angle</b>	0	17	52.5168846
<b>Scale Factor</b>	0.999948725		
<b>Elevation Adjust. Factor</b>	0.9999898206		
<b>Combined Adjust. Factor</b>	0.9999385461		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	18	16.00	52.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730030A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,500.7519	
<b>Easting (M)</b>	447,105.2912	
<b>Elevation (M)*</b>	64.697	
<b>Northing (SFT)</b>	349,411.2169	
<b>Easting (SFT)</b>	1,466,877.9429	
<b>Elevation (SFT)*</b>	212.262	

  

<b>Convergence Angle</b>	0	18	4.8803792
<b>Scale Factor</b>	0.999948852		
<b>Elevation Adjust. Factor</b>	0.9999898470		
<b>Combined Adjust. Factor</b>	0.9999386995		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF A RAILROAD SIG	183	21.70	71.2
MK # 2	TELEPHONE POLE	248	25.30	83.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Comments			
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.			

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 4.75 MILES TO THE STATION MARK ON THE RIGHT, EAST 37 FEET OF THE CENTERLINE OF HURRICANE LAKE ROAD, SOUTH 43.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 11.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730030A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	730030
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730031	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	107,507.3264	
<b>Easting (M)</b>	442,973.4936	
<b>Elevation (M)*</b>	63.787	
<b>Northing (SFT)</b>	352,713.6200	
<b>Easting (SFT)</b>	1,453,322.2036	
<b>Elevation (SFT)*</b>	209.276	

  

<b>Convergence Angle</b>	0	16	29.8338664
<b>Scale Factor</b>	0.999948046		
<b>Elevation Adjust. Factor</b>	0.9999899898		
<b>Combined Adjust. Factor</b>	0.9999380363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 2.2 MILES TO THE STATION MARK ON THE LEFT, NORTH 23.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730031 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730031A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	107,348.4183		
<b>Easting (M)</b>	443,537.3732		
<b>Elevation (M)*</b>	63.374		
<b>Northing (SFT)</b>	352,192.2690		
<b>Easting (SFT)</b>	1,455,172.1986		
<b>Elevation (SFT)*</b>	207.920		

  

<b>Convergence Angle</b>	0	16	42.8040404
<b>Scale Factor</b>	0.999948171		
<b>Elevation Adjust. Factor</b>	0.9999900546		
<b>Combined Adjust. Factor</b>	0.9999382261		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	273	12.19	40.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730032	<b>Date Monumented</b> 9/2/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264, 050477
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	108,857.7040	0.0040	
<b>Easting (M)</b>	439,649.2567	0.0040	
<b>Elevation (M)*</b>	75.070		
<b>Northing (SFT)</b>	357,143.9839		
<b>Easting (SFT)</b>	1,442,415.9364		
<b>Elevation (SFT)*</b>	246.293		

  

<b>Convergence Angle</b>	0	15	13.4035340
<b>Scale Factor</b>	0.999947015		
<b>Elevation Adjust. Factor</b>	0.9999882192		
<b>Combined Adjust. Factor</b>	0.9999352348		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	18	49.5402012
<b>Longitude</b>	91	33	50.3063748
<b>Ellipsoid Height:</b>	47.775		
<b>Grid Northing (Meters)</b>	108,857.7155		
<b>Grid Easting (Meters)</b>	439,649.2487		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	155	18.23	59.8
MK # 2	NE CORNER OF METAL BLDG	248	27.58	90.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012. *****Original geoid ht. was 27.309m & was superceded in Nov. 2021. *****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB
Ref Mon # 2    ARSC	
Ref Mon # 3    ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730032A	<b>Date Monumented</b> 9/2/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 050264, 050477
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	108,420.1937	0.0040	
<b>Easting (M)</b>	439,570.6870	0.0040	
<b>Elevation (M)*</b>	66.197		
<b>Northing (SFT)</b>	355,708.5855		
<b>Easting (SFT)</b>	1,442,158.1623		
<b>Elevation (SFT)*</b>	217.182		

  

<b>Convergence Angle</b>	0	15	11.5489980
<b>Scale Factor</b>	0.999947340		
<b>Elevation Adjust. Factor</b>	0.9999896116		
<b>Combined Adjust. Factor</b>	0.9999369522		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	18	35.3544480
<b>Longitude</b>	91	33	53.4931560
<b>Ellipsoid Height:</b>	38.921		
<b>Grid Northing (Meters)</b>	108,420.2044		
<b>Grid Easting (Meters)</b>	439,570.6856		

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 0.35 MILES TO MILLER STREET AND TURN RIGHT (SOUTH) AND GO 0.3 MILES TO THE JUNCTION OF MILLER STREET AND WALNUT STREET AND THE STATION MARK IN THE SOUTHEAST CORNER OF THE INTERSECTION, SOUTH 58.8 FEET OF THE CENTERLINE OF MILLER STREET AND WEST 20.3 FEET OF THE CENTERLINE OF WALNUT STREET AND 32.2 FEET EAST OF THE CENTERLINE OF A RAILROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	159	5.94	19.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARBT</p> <p>Ref Mon # 2    ARSC</p> <p>Ref Mon # 3    ARWY</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</p> <p>*****Original geoid ht. was 27.312m &amp; was superceded in Nov. 2021.</p> <p>*****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 &amp; C 341 BY CREW S5103 FOR JOB</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730033	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 67/167	<b>Job Number:</b> 012154, Mobile LiDAR-CLS
--------------------------	------------------------------------	------------------------------	------------------------	------------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 82,190.2690		<b>Geoid Datum:</b> Geoid 09
<b>Easting (M)</b> 408,372.8072		<b>Latitude</b> 35 4 26.9017608
<b>Elevation (M)*</b>		<b>Longitude</b> 91 54 29.5070940
<b>Northing (SFT)</b> 269,652.5742		<b>Ellipsoid Height (M):</b> 48.444
<b>Easting (SFT)</b> 1,339,803.1183		<b>Geoid Height (M):</b> -27.314
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 3 12.3135338	<b>Location Description</b>
<b>Scale Factor</b> 0.999975305	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.55 MILES TO THE STATION ON THE LEFT, SET IN THE MEDIAN. THE STATION IS 49.31 FEET SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 35.56 FEET NORTHWEST OF THE NORTH BOUND LANE AND 4.43 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730033 2011" SET ON TOP OF A REBAR 2.54 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks					
Description	Azimuth	Distance		AZ Mark Station	
		Meters	Feet		
MK # 1				730015	
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	HANDHELD, 35-04-27, 91-54-30

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730034	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 012154Mobie LiDAR-CLS
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	84,742.7076	
<b>Easting (M)</b>	399,869.8799	
<b>Elevation (M)*</b>	78.034	
<b>Northing (SFT)</b>	278,026.6999	
<b>Easting (SFT)</b>	1,311,906.4310	
<b>Elevation (SFT)*</b>	256.018	

  

<b>Convergence Angle</b>	0	0	2.9895563
<b>Scale Factor</b>	0.999971832		
<b>Elevation Adjust. Factor</b>	0.9999877540		
<b>Combined Adjust. Factor</b>	0.9999595864		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	199	4.48	14.7
MK # 2	POWER POLE	102	21.43	70.3
MK # 3	NORTHWEST CORNER OF WOOD FRAME	238	15.54	51.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</td> </tr> </table>	Comments	HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Comments			
HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.			

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.3 MILES TO THE STATION ON THE LEFT, SOUTH 54 FEET OF THE CENTERLINE OF THE HIGHWAY AND 8.0 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	730034A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730034A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 012154, Mobile LiDAR-CLS
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	84,789.4447	
<b>Easting (M)</b>	399,381.3158	
<b>Elevation (M)*</b>	76.430	
<b>Northing (SFT)</b>	278,180.0365	
<b>Easting (SFT)</b>	1,310,303.5336	
<b>Elevation (SFT)*</b>	250.755	

  

<b>Convergence Angle</b>	0	0	14.2145679
<b>Scale Factor</b>	0.999971770		
<b>Elevation Adjust. Factor</b>	0.9999880057		
<b>Combined Adjust. Factor</b>	0.9999597761		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	283	21.60	70.9
MK # 2	FENCE CORNER	95	23.41	76.8
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</td> </tr> </table>	Comments	HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Comments			
HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.6 MILES TO THE STATION ON THE RIGHT, SOUTH 38.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND 1.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034A 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	730034
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730035	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 2154,050263Mobie LiDAR-C
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	85,136.2646
<b>Easting (M)</b>	395,155.9669
<b>Elevation (M)*</b>	82.939
<b>Northing (SFT)</b>	279,317.8948
<b>Easting (SFT)</b>	1,296,440.8681
<b>Elevation (SFT)*</b>	272.110

  

<b>Convergence Angle</b>	0	1	51.2982781
<b>Scale Factor</b>	0.999971313		
<b>Elevation Adjust. Factor</b>	0.9999869843		
<b>Combined Adjust. Factor</b>	0.9999582977		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	165	25.30	83.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HANDHELD, 35-06-03, 92-02-11, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730035A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 64	<b>Job Number:</b> 012154Mobie LiDAR-CLS
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	85,646.0507	
<b>Easting (M)</b>	394,945.8484	
<b>Elevation (M)*</b>	82.239	
<b>Northing (SFT)</b>	280,990.4180	
<b>Easting (SFT)</b>	1,295,751.5043	
<b>Elevation (SFT)*</b>	269.812	

  

<b>Convergence Angle</b>	0	1	56.1326295
<b>Scale Factor</b>	0.999970645		
<b>Elevation Adjust. Factor</b>	0.9999870942		
<b>Combined Adjust. Factor</b>	0.9999577396		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	345	23.23	76.2
MK # 2	POWER POLE	138	23.01	75.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	HANDHELD, 35-06-19, 92-03-20, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730036	<b>Date Monumented</b> 1/22/2013	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> NA	<b>Job Number:</b> 050198
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,512.2943	
<b>Easting (M)</b>	419,183.5555	
<b>Elevation (M)*</b>	133.224	
<b>Northing (SFT)</b>	339,606.5855	
<b>Easting (SFT)</b>	1,375,271.3817	
<b>Elevation (SFT)*</b>	437.084	

  

<b>Convergence Angle</b>	0	7	21.6718425
<b>Scale Factor</b>	0.999951253		
<b>Elevation Adjust. Factor</b>	0.9999790933		
<b>Combined Adjust. Factor</b>	0.9999303473		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of gate	89	11.13	36.5
MK # 2	24" Oak	180	17.28	56.7
MK # 3	30" Oak	245	28.83	94.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 15 58.2640920
<b>Longitude</b>	91 47 20.9821200
<b>Ellipsoid Height (M):</b>	105.948
<b>Geoid Height (M):</b>	-27.275

Location Description
<p>To reach from the inter. of Hwy. 16 and Hwy. 67B in Searcy. Go West on Hwy. 16 for 1.2 miles to Holmes rd. Turn left (West) on Holmes rd. for 1.5 miles to Verkler rd. Turn left (South) on Verkler rd. for 1.1 miles on Verkler rd. to the station on the right. Station being North 85.8 ft. from driveway to house and West 45.4 ft. from rd. leading to gas well. The station mark is a 2 1/2 in. cap stamped "730036 2013" set onto a 5/8 in. by 4 ft. rebar driven 0.10 in. below surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730036A	<b>Date Monumented</b> 1/22/2013	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> NA	<b>Job Number:</b> 050198
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	103,799.0592		
<b>Easting (M)</b>	419,143.5207		
<b>Elevation (M)*</b>	132.701		
<b>Northing (SFT)</b>	340,547.4134		
<b>Easting (SFT)</b>	1,375,140.0342		
<b>Elevation (SFT)*</b>	435.371		

  

<b>Convergence Angle</b>	0	7	20.7642126
<b>Scale Factor</b>	0.999951005		
<b>Elevation Adjust. Factor</b>	0.9999791752		
<b>Combined Adjust. Factor</b>	0.9999301813		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	15" Pine tree	13	24.57	80.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730037	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	101,604.7197	0.0010
<b>Easting (M)</b>	415,938.8254	0.0020
<b>Elevation (M)*</b>	93.468	
<b>Northing (SFT)</b>	333,348.1512	
<b>Easting (SFT)</b>	1,364,625.9630	
<b>Elevation (SFT)*</b>	306.652	

  

<b>Convergence Angle</b>	0	6	6.8889779
<b>Scale Factor</b>	0.999952947		
<b>Elevation Adjust. Factor</b>	0.9999853321		
<b>Combined Adjust. Factor</b>	0.9999382798		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	85	8.53	28.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 14 56.5698300
<b>Longitude</b>	91 49 29.4972888
<b>Ellipsoid Height (M):</b>	66.161 0.0060
<b>Geoid Height (M):</b>	-27.292

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.3 MILES TO THE MARK ON THE RIGHT, 26.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 15.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730037A	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	101,389.1460 0.0010
<b>Easting (M)</b>	416,406.4531 0.0020
<b>Elevation (M)*</b>	87.726
<b>Northing (SFT)</b>	332,640.8898
<b>Easting (SFT)</b>	1,366,160.1715
<b>Elevation (SFT)*</b>	287.814

  

<b>Convergence Angle</b>	0 6 17.6439918
<b>Scale Factor</b>	0.999953146
<b>Elevation Adjust. Factor</b>	0.9999862331
<b>Combined Adjust. Factor</b>	0.9999393798

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.6 MILES TO THE MARK ON THE RIGHT, 57.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 41 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 48 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 10.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037A 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	67	5.48	18.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    ARBT Ref Mon # 3    P777	<b>Comments</b>  DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730038	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>		
Arkansas North	301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	102,723.5003	0.0010	
<b>Easting (M)</b>	411,466.9424	0.0010	
<b>Elevation (M)*</b>	100.578		
<b>Northing (SFT)</b>	337,018.6839		
<b>Easting (SFT)</b>	1,349,954.4602		
<b>Elevation (SFT)*</b>	329.978		

  

<b>Convergence Angle</b>	0	4	23.9857166
<b>Scale Factor</b>	0.999951933		
<b>Elevation Adjust. Factor</b>	0.9999842163		
<b>Combined Adjust. Factor</b>	0.9999361501		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW COR HOUSE	10	17.22	56.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARLR	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 15 33.0961212
<b>Longitude</b>	91 52 26.3376660
<b>Ellipsoid Height (M):</b>	73.249 0.0040
<b>Geoid Height (M):</b>	-27.327

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 32.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 18 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730038 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730038A	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	102,441.9451	0.0010			
<b>Easting (M)</b>	411,904.2342	0.0010			
<b>Elevation (M)*</b>	91.690				
<b>Northing (SFT)</b>	336,094.9482				
<b>Easting (SFT)</b>	1,351,389.1417				
<b>Elevation (SFT)*</b>	300.819				

  

<b>Convergence Angle</b>	0	4	34.0441889
<b>Scale Factor</b>	0.999952185		
<b>Elevation Adjust. Factor</b>	0.9999856111		
<b>Combined Adjust. Factor</b>	0.9999377968		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE CORNER	121	2.01	6.6
<b>MK # 2</b>	COMBINATION POLE	79	4.57	15.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARLR"/>	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
<b>Ref Mon # 2</b> <input type="text" value="ARBT"/>	
<b>Ref Mon # 3</b> <input type="text" value="P777"/>	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 15 23.9411628
<b>Longitude</b>	91 52 9.0520716
<b>Ellipsoid Height (M):</b>	64.369 0.0040
<b>Geoid Height (M):</b>	-27.324

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 0.35 MILES TO THE MARK ON THE LEFT, 51.0 FEET SOUTH SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 2.0 FEET WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730038A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730039	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	104,202.2851 0.0010
<b>Easting (M)</b>	407,026.1559 0.0010
<b>Elevation (M)*</b>	99.031
<b>Northing (SFT)</b>	341,870.3304
<b>Easting (SFT)</b>	1,335,384.9798
<b>Elevation (SFT)*</b>	324.905

  

<b>Convergence Angle</b>	0 2 41.7790996
<b>Scale Factor</b>	0.999950645
<b>Elevation Adjust. Factor</b>	0.9999844590
<b>Combined Adjust. Factor</b>	0.9999351048

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 16 21.2313288
<b>Longitude</b>	91 55 21.9808524
<b>Ellipsoid Height (M):</b>	71.691 0.0060
<b>Geoid Height (M):</b>	-27.349

  

<b>Location Description</b>
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.6 MILES TO THE MARK ON THE LEFT, 36.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 4.1 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

<b>Location Reference Marks</b>			
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>
			<b>Meters</b> <b>Feet</b>
MK # 1			
MK # 2			
MK # 3			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730039A	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	104,110.9758	0.0010	
<b>Easting (M)</b>	407,448.8784	0.0010	
<b>Elevation (M)*</b>	93.492		
<b>Northing (SFT)</b>	341,570.7598		
<b>Easting (SFT)</b>	1,336,771.8619		
<b>Elevation (SFT)*</b>	306.731		

  

<b>Convergence Angle</b>	0	2	51.5106454
<b>Scale Factor</b>	0.999950723		
<b>Elevation Adjust. Factor</b>	0.9999853283		
<b>Combined Adjust. Factor</b>	0.9999360520		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	324	7.40	24.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.3 MILES TO THE MARK ON THE RIGHT, 23.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 20.0 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

  

<b>AZ Mark Station</b>	730039
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730040	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	105,683.4106	0.0010	
<b>Easting (M)</b>	403,991.5734	0.0020	
<b>Elevation (M)*</b>	233.093		
<b>Northing (SFT)</b>	346,729.6563		
<b>Easting (SFT)</b>	1,325,429.0204		
<b>Elevation (SFT)*</b>	764.739		

  

<b>Convergence Angle</b>	0	1	31.9222459
<b>Scale Factor</b>	0.999949411		
<b>Elevation Adjust. Factor</b>	0.9999634215		
<b>Combined Adjust. Factor</b>	0.9999128343		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES, THEN LEFT (WEST) ON GRAVEL HILL ROAD 0.40 MILES TO THE MARK ON THE LEFT, 27.0 FEET SOUTH OF THE CENTERLINE GRAVEL HILL ROAD, 36.8 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 19.0 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN (J H RANCH)	162	10.70	35.1
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="ARLR"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ARBT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="P777"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730040A	<b>Date Monumented</b> 9/15/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 050280
---------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	105,692.2200	0.0010	
<b>Easting (M)</b>	404,672.3100	0.0010	
<b>Elevation (M)*</b>	229.728		
<b>Northing (SFT)</b>	346,758.5585		
<b>Easting (SFT)</b>	1,327,662.4037		
<b>Elevation (SFT)*</b>	753.698		

  

<b>Convergence Angle</b>	0	1	47.5990832
<b>Scale Factor</b>	0.999949404		
<b>Elevation Adjust. Factor</b>	0.9999639496		
<b>Combined Adjust. Factor</b>	0.9999133554		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/ LIGHT AND TRANSFORMER	66	18.23	59.8
<b>MK # 2</b>	POWER POLE W/ GUY AND TRANSFORMER	125	19.20	63.0
<b>MK # 3</b>	N. END OF 24" CMP CULVERT	287	8.90	29.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARLR"/>	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
<b>Ref Mon # 2</b> <input type="text" value="ARBT"/>	
<b>Ref Mon # 3</b> <input type="text" value="P777"/>	

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 17 9.6294768
<b>Longitude</b>	91 56 55.0898016
<b>Ellipsoid Height (M):</b>	202.347 0.0070
<b>Geoid Height (M):</b>	-27.354

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES TO THE MARK ON THE RIGHT, 53.2 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 20 FEET NORTH OF THE CENTER OF NEWTON HOLLOW ROAD, 13.5 FEET EAST OF THE CENTER OF IVY LANE AND 35.4 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730041	<b>Date Monumented</b> 9/16/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 16	<b>Job Number:</b> 050279
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	117,921.4836	0.0040
<b>Easting (M)</b>	416,677.2376	0.0040
<b>Elevation (M)*</b>	100.096	
<b>Northing (SFT)</b>	386,880.7341	
<b>Easting (SFT)</b>	1,367,048.5704	
<b>Elevation (SFT)*</b>	328.397	

  

<b>Convergence Angle</b>	0	6	24.5864278
<b>Scale Factor</b>	0.999941297		
<b>Elevation Adjust. Factor</b>	0.9999842920		
<b>Combined Adjust. Factor</b>	0.9999255899		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/ GUY, LIGHT AND TRANSFORMER	102	47.50	155.8
<b>MK # 2</b>	POWER POLE W/ LIGHT	345	95.50	313.3
<b>MK # 3</b>	TELEPHONE BOX	116	28.00	91.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ARLR"/>	
<b>Ref Mon # 2</b> <input type="text" value="ARBT"/>	
<b>Ref Mon # 3</b> <input type="text" value="P777"/>	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID96
<b>Latitude</b>	35 23 46.0011480
<b>Longitude</b>	91 48 59.0840280
<b>Ellipsoid Height (M):</b>	72.780 0.0060
<b>Geoid Height (M):</b>	-27.317

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO EAST ON HIGHWAY 16 FOR 2.5 MILES TO THE MARK ON THE LEFT, 16.5 FEET EAST OF THE EAST EDGE OF PAVEMENT, 96 FEET SOUTH SOUTHEAST OF THE CENTER OF A PAVED DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730041 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730042	<b>Date Monumented</b> 9/16/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 110	<b>Job Number:</b> 050279
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 121,357.3052	<b>0.0040</b>	<b>Geoid Datum:</b> GEOID96
<b>Easting (M)</b> 414,803.5848	<b>0.0040</b>	<b>Latitude</b> 35 25 37.5987720
<b>Elevation (M)*</b> 106.679		<b>Longitude</b> 91 50 13.1109720
<b>Northing (SFT)</b> 398,153.0921		<b>Ellipsoid Height (M):</b> 79.363 0.0070
<b>Easting (SFT)</b> 1,360,901.4278		<b>Geoid Height (M):</b> -27.323
<b>Elevation (SFT)*</b> 349.995		

  

<b>Convergence Angle</b> 0 5 41.5102136	<b>Scale Factor</b> 0.999939676	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO NORTH ON HIGHWAY 110 FOR 210.5 FEET MEASURED TO THE MARK ON THE RIGHT, 31.0 FEET EAST OF CENTERLINE OF HIGHWAY 110, 210.5 FEET NORTH OF THE CENTERLINE OF MAIN STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730042 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
<b>Elevation Adjust. Factor</b> 0.9999832589	<b>Combined Adjust. Factor</b> 0.9999229359	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF PANGBURN FIRE DEPARTMENT BUILDING	247	65.20	213.9
MK # 2	COMBINATION POLE W/ GUY AND LIGHT	281	17.70	58.1
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARLR	
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 730042A	<b>Date Monumented</b> 9/16/2014	<b>Monumented By</b> AHTD	<b>County</b> WHITE	<b>Route</b> 110	<b>Job Number:</b> 050279
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	121,823.1111	0.0040			
<b>Easting (M)</b>	414,521.3035	0.0040			
<b>Elevation (M)*</b>	102.198				
<b>Northing (SFT)</b>	399,681.3237				
<b>Easting (SFT)</b>	1,359,975.3099				
<b>Elevation (SFT)*</b>	335.293				

  

<b>Convergence Angle</b>	0	5	35.0156119
<b>Scale Factor</b>	0.999939479		
<b>Elevation Adjust. Factor</b>	0.9999839621		
<b>Combined Adjust. Factor</b>	0.9999234421		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ GUY AND TRANSFER	336	43.80	143.7
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	730042
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740001	<b>Date Monumented</b> 11/16/2000	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 33C	<b>Job Number:</b> 110392
--------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,231.5689	
<b>Easting (M)</b>	459,048.7990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	341,966.4056	
<b>Easting (SFT)</b>	1,506,062.6014	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	39.5992648
<b>Scale Factor</b>	0.999950784		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 33 AND STATE HIGHWAY 33C, LOCATED ON THE SOUTHEAST SIDE OF AUGUSTA, GO EAST ON STATE HIGHWAY 33C FOR 0.92 KM (0.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.60 METERS SOUTH OF THE BACK OF CURB OF A PARKING LOT, 11.40 METERS EAST OF THE CENTER OF A CONCRETE DITCH, 11.05 METERS WEST OF A BACK OF CRUB OF THE ENTRANCE TO THE PASLODE COMPANY, 10.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 33C AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740001 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.263 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF RCP	69	8.20	26.9
MK # 2	GUY POLE	145	7.65	25.1
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740001A	<b>Date Monumented</b> 11/16/2000	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 33C	<b>Job Number:</b> 110392
---------------------------	--------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,225.6436	
<b>Easting (M)</b>	459,781.9978	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	341,946.9657	
<b>Easting (SFT)</b>	1,508,468.1044	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	22	56.4797681
<b>Scale Factor</b>	0.999950793		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 33 AND STATE HIGHWAY 33C, LOCATED ON THE SOUTHEAST SIDE OF AUGUSTA, GO EAST ON STATE HIGHWAY 33C FOR 0.21 KM (0.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 33C, 2.60 METERS WEST OF A WOODEN POST AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740001A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.263 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    NEWSFORT</p> <p>Ref Mon # 3    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740002	<b>Date Monumented</b> 11/16/2000	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 17	<b>Job Number:</b> 110423, 110423
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,089.6976	
<b>Easting (M)</b>	469,624.2649	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	341,500.9495	
<b>Easting (SFT)</b>	1,540,758.9424	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	26	43.0650404
<b>Scale Factor</b>	0.999950970		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.42 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    NEWSFORT</p> <p>Ref Mon # 3    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740002A	<b>Date Monumented</b> 11/16/2000	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 17	<b>Job Number:</b> 110423, 110289
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,327.7882	
<b>Easting (M)</b>	469,622.8086	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	339,001.2518	
<b>Easting (SFT)</b>	1,540,754.1645	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	26	42.8951889
<b>Scale Factor</b>	0.999951632		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.89 KM TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 11.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	220	2.70	8.9
MK # 2	SQUARE METAL BRACE POST	285	1.00	3.3
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    NEWSPORT</p> <p>Ref Mon # 3    SEARPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740003	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,874.1512	
<b>Easting (M)</b>	475,145.6290	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	340,793.7777	
<b>Easting (SFT)</b>	1,558,873.6178	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	50.1444075
<b>Scale Factor</b>	0.999951195		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FLAG POLE	322	20.20	66.3
<b>MK # 2</b>	SOUTH END OF CONCRETE SIGN "McRORY"	328	20.50	67.3
<b>MK # 3</b>	METER POLE	343	23.50	77.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER	
<b>Ref Mon # 2</b> 480016	
<b>Ref Mon # 3</b> MEM 2	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 16 0.4458288
<b>Longitude</b>	91 10 26.7279600
<b>Ellipsoid Height (M):</b>	37.987
<b>Geoid Height (M):</b>	-27.243

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-17 AND HWY-145 IN McRORY, GO EAST ON HWY-64 FOR 1.45 MILES TO THE STATION ON THE LEFT NEAR A CONCRETE "McRORY" SIGN. 20 METERS SOUTHEAST OF THE SIGN, 11.0 METERS NORTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740003 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740003A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,196.5091	
<b>Easting (M)</b>	476,116.4500	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	338,570.5469	
<b>Easting (SFT)</b>	1,562,058.7197	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	29	12.3628652
<b>Scale Factor</b>	0.999951795		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND FIBER OPTIC CABLE MAR	110	19.80	65.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> MEM 2	

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 15 38.1912120

**Longitude** 91 9 48.5452980

**Ellipsoid Height (M):** 36.449

**Geoid Height (M):** -27.232

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-17 AND HWY-145 IN McRORY, GO EAST ON HWY-64 FOR 2.20 MILES TO THE STATION ON THE RIGHT, 12.50 METERS WEST OF A FIELD ENTRANCE, 15.2 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740003A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

<b>AZ Mark Station</b>	740003
<b>Geodetic Azimuth</b>	305 24 08
<b>Grid Azimuth</b>	304 54 56

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740004	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 269	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,722.0311	
<b>Easting (M)</b>	481,675.8800	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	337,013.8637	
<b>Easting (SFT)</b>	1,580,298.2830	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	20.2463669
<b>Scale Factor</b>	0.999952260		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON , GO NORTH ON 269 FOR 0.30 MI TO THE STATION ON THE LEFT NEAR A FIELD ENTRANCE AND A PIPE GATE. THE STATION IS 12.1 METERS WEST OF THE CENTER OF PAVED COUNTY ROAD 269 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOUR INCH PIPE GATE POST	337	1.70	5.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input type="text" value="BUTLER"/></p> <p>Ref Mon # 2 <input type="text" value="480016"/></p> <p>Ref Mon # 3 <input type="text" value="MEM 2"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740004A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,241.9771	
<b>Easting (M)</b>	481,278.0990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,438.8865	
<b>Easting (SFT)</b>	1,578,993.2298	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	31	10.9893813
<b>Scale Factor</b>	0.999952690		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON, GO WEST ON HIGHWAY 64 0.35 MI TO THE STATION ON THE LEFT NEAR A FIELD ROAD AND A GATE. THE STATION IS SOUTH 18.30 METERS OF THE CENTER OF HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	114	17.00	55.8	740004A	
MK # 2	FOUR INCH PIPE GATE POST	234	5.60	18.4		
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> BUTLER <b>Ref Mon # 2</b> 480016 <b>Ref Mon # 3</b> MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740005	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 110423
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,260.3851	
<b>Easting (M)</b>	486,102.2250	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,499.2801	
<b>Easting (SFT)</b>	1,594,820.3832	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	2.0362643
<b>Scale Factor</b>	0.999952714		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.75 MI TO THE STATION ON THE RIGHT NEAR SOME GRAIN STORAGE BINS AND A TURN IN FOR THE BINS. THE STATION IS 17.90 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	276	8.30	27.2
MK # 2	SOUTHEAST CORNER OF WOODEN STORA	333	19.00	62.3
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: 480016</p> <p>Ref Mon # 3: MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740005A	<b>Date Monumented</b> 1/7/2003	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 110423
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	102,256.4841	
<b>Easting (M)</b>	486,698.1000	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	335,486.4816	
<b>Easting (SFT)</b>	1,596,775.3498	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	15.7513288
<b>Scale Factor</b>	0.999952722		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.40 MI TO THE STATION ON THE LEFT. THE STATION IS 15.1 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 5.6 METERS SOUTH OF THE EDGE OF THE ASPH., 1.9 METERS NORTH OF THE TOP BANK OF A DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: 480016</p> <p>Ref Mon # 3: MEM 2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740006	<b>Date Monumented</b> 4/15/2010	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 38	<b>Job Number:</b> 110541
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	75,030.2051				
<b>Easting (M)</b>	473,168.3330				
<b>Elevation (M)*</b>	58.992				
<b>Northing (SFT)</b>	246,161.5979				
<b>Easting (SFT)</b>	1,552,386.4392				
<b>Elevation (SFT)*</b>	193.543				

  

<b>Convergence Angle</b>	0	27	59.2150563
<b>Scale Factor</b>	0.999986346		
<b>Elevation Adjust. Factor</b>	0.9999907423		
<b>Combined Adjust. Factor</b>	0.9999770884		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE WITH GUY	107	24.39	80.0
<b>MK # 2</b>	POWER POLE WITH 2 GUYS	324	22.92	75.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)
<b>Ref Mon # 2</b> ARBT	
<b>Ref Mon # 3</b> MSOX	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    0    25.0179876
<b>Longitude</b>	91    11    54.2506056
<b>Ellipsoid Height (M):</b>	32.087
<b>Geoid Height (M):</b>	-26.905

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 49, NORTH OF BRINKLEY, GO WEST ON 38 FOR 2.8 MILES TO THE MARK ON THE LEFT, 15.6 FEET SOUTH FROM C/L OF HIGHWAY 38 AND 36.7 FEET NORTH OF THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740006 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740006A	<b>Date Monumented</b> 4/5/2010	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> CR 639	<b>Job Number:</b> 110541
---------------------------	------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	75,592.4390	
<b>Easting (M)</b>	473,163.6780	
<b>Elevation (M)*</b>	59.376	
<b>Northing (SFT)</b>	248,006.1936	
<b>Easting (SFT)</b>	1,552,371.1669	
<b>Elevation (SFT)*</b>	194.802	

  

<b>Convergence Angle</b>	0	27	59.2132715
<b>Scale Factor</b>	0.999985466		
<b>Elevation Adjust. Factor</b>	0.9999906821		
<b>Combined Adjust. Factor</b>	0.9999761482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	358	15.85	52.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)
Ref Mon # 2    ARLR	
Ref Mon # 3    MSOX	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740007	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 050264
--------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,336.4797	
<b>Easting (M)</b>	454,671.3698	
<b>Elevation (M)*</b>	67.121	
<b>Northing (SFT)</b>	348,872.2671	
<b>Easting (SFT)</b>	1,491,700.9858	
<b>Elevation (SFT)*</b>	220.213	

  

<b>Convergence Angle</b>	0	20	59.1073576
<b>Scale Factor</b>	0.999949018		
<b>Elevation Adjust. Factor</b>	0.9999894666		
<b>Combined Adjust. Factor</b>	0.9999384851		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	133	7.41	24.3
MK # 2	SOUTH OF GUARD RAIL	194	3.81	12.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Comments			
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 33N, IN AUGUSTA, GO WEST ON HIGHWAY 64 FOR 2.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 44.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740007 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740007A	<b>Date Monumented</b> 9/1/2011	<b>Monumented By</b> AHTD	<b>County</b> WOODRUFF	<b>Route</b> 64	<b>Job Number:</b> 050264
---------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,275.7931	
<b>Easting (M)</b>	454,154.2895	
<b>Elevation (M)*</b>	66.174	
<b>Northing (SFT)</b>	348,673.1645	
<b>Easting (SFT)</b>	1,490,004.5315	
<b>Elevation (SFT)*</b>	217.105	

  

<b>Convergence Angle</b>	0	20	47.1905953
<b>Scale Factor</b>	0.999949064		
<b>Elevation Adjust. Factor</b>	0.9999896153		
<b>Combined Adjust. Factor</b>	0.9999386798		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750001	<b>Date Monumented</b> 10/28/1991	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826, 8927,080495
--------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	81,465.7364	0.0063	
<b>Easting (M)</b>	272,667.3823	0.0062	
<b>Elevation (M)*</b>	102.878		
<b>Northing (SFT)</b>	267,275.5035		
<b>Easting (SFT)</b>	894,576.2368		
<b>Elevation (SFT)*</b>	337.526		

  

<b>Convergence Angle</b>	0	48	44.2494528
<b>Scale Factor</b>	0.999977594		
<b>Elevation Adjust. Factor</b>	0.9999838553		
<b>Combined Adjust. Factor</b>	0.9999614497		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	3	34.2266904
<b>Longitude</b>	93	23	45.3542424
<b>Ellipsoid Height:</b>	73.419		
<b>Grid Northing (Meters)</b>	81,465.7301		
<b>Grid Easting (Meters)</b>	272,667.3910		

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CAP IN BRIDGE		120	9.78	32.1
MK # 2	GUARD RAIL POST		103	2.58	8.5
MK # 3	GUARD RAIL POST		326	2.74	9.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> CLARPORT <b>Ref Mon # 2</b> Q 299 <b>Ref Mon # 3</b> RUSSPORT	<b>Comments</b>  OLD PN: 91750001 ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101.SURFACE ADJUSTMENT FACTOR FOR JOB R80019 = 0.999960444. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.
--	---

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 10, LOCATED ON THE NORTHWEST SIDE OF DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.485 METERS SOUTH OF THE CENTER OF HIGHWAY 10 AND 0.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "91750001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>AZ Mark Station</b>	750001A
<b>Geodetic Azimuth</b>	348 23 18.01432
<b>Grid Azimuth</b>	349 12 02.27438

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750001A	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826, 8927,080495
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	81,824.4328    0.0063
<b>Easting (M)</b>	272,598.9684    0.0062
<b>Elevation (M)*</b>	102.866
<b>Northing (SFT)</b>	268,452.3266
<b>Easting (SFT)</b>	894,351.7822
<b>Elevation (SFT)*</b>	337.485

  

<b>Convergence Angle</b>	0    48    45.9372420
<b>Scale Factor</b>	0.999977084
<b>Elevation Adjust. Factor</b>	0.9999838573
<b>Combined Adjust. Factor</b>	0.9999609417

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	3	45.8337960
<b>Longitude</b>	93	23	48.2549676
<b>Ellipsoid Height:</b>	73.387		
<b>Grid Northing (Meters)</b>	81,824.4261		
<b>Grid Easting (Meters)</b>	272,598.9710		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	327	1.65	5.4
MK # 2	GUARD RAIL POST	200	2.71	8.9
MK # 3	GUARD RAIL POST	187	6.40	21.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> CLARPORT <b>Ref Mon # 2</b> Q 299 <b>Ref Mon # 3</b> RUSSPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B &amp; UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&amp;F during job 080495 in 04/2015.</td> </tr> </table>	Comments	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.
Comments			
ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.			

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 10, LOCATED ON THE NORTHWEST SIDE OF DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.18 METERS SOUTH OF A BRIDGE, 7.41 METERS EAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750001A 1998" SET ON TOP OF AN ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750002	<b>Date Monumented</b> 10/28/1991	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 8927
--------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	81,558.8451	
<b>Easting (M)</b>	276,160.5450	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	267,580.9776	
<b>Easting (SFT)</b>	906,036.7214	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	24.0672300
<b>Scale Factor</b>	0.999977391		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 33.5 FEET NORTH OF THE EDGE OF HWY. 10, 7 FEET NORTHEAST OF A FENCE CORNER AND 4 FEET EAST OF A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN COMBINATION POLE	68	9.25	30.4
<b>MK # 2</b>	NBC IN CORNER FENCE POST	220	2.11	6.9
<b>MK # 3</b>	NBC IN FENCE BRACE POST	290	1.41	4.6

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    CLARPORT</p> <p><b>Ref Mon # 2</b>    RUSSPORT</p> <p><b>Ref Mon # 3</b>    POWELL</p>	<p style="text-align: center;"><b>Comments</b></p> <p>OLD PN: 91750002</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750002A	<b>Date Monumented</b> 10/28/1991	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 8927
---------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	81,382.7171	
<b>Easting (M)</b>	275,791.3190	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	267,003.1310	
<b>Easting (SFT)</b>	904,825.3524	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	47	32.4897729
<b>Scale Factor</b>	0.999977650		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN FENCE POST	70	4.07	13.4
<b>MK # 2</b>	NBC IN FENCE POST	84	1.43	4.7
<b>MK # 3</b>	NBC IN FENCE POST	223	1.75	5.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> CLARPORT <b>Ref Mon # 2</b> RUSSPORT <b>Ref Mon # 3</b> POWELL	OLD PN: 91750002A     

  

**Vertical Determined By:** NONE

**Elevation Datum:** NONE

**Geoid Datum:**

**Latitude** 35 3 32.9526540

**Longitude** 93 21 42.0347952

**Ellipsoid Height (M):** 86.403

**Geoid Height (M):** -29.970

**Location Description**

FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.04 MILES AND STATION ON THE RIGHT. THE STATION IS 28 FEET SOUTH OF THE EDGE OF HWY. 10, 166 FEET WEST OF A FIELD ENTRANCE AND NEAR THE MAIL BOX OF E. MARTIN AND 1 FEET NORTH OF A WITNESS POST.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750003	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80025
--------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	77,102.7260	
<b>Easting (M)</b>	298,037.4130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	252,961.1936	
<b>Easting (SFT)</b>	977,811.0792	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	39	0.5348968
<b>Scale Factor</b>	0.999983568		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE YELL AND PERRY COUNTY LINE, GO WEST 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 68 FEET NORTH OF THE CENTERLINE OF HWY. 10, 101 FEET SOUTH OF THE CENTERLINE OF A R/R TRACK, 257 FEET NORTHEAST OF THE NORTH HEADWALL OF A CROSSDRAIN AND 52 FEET SOUTH OF A WITNESS POST.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN 4" PEAR TREE		71	11.35	37.2	
MK # 2	NBC IN GUY POLE		178	10.92	35.8	
MK # 3	NBC IN TOP OF CORNER FENCE POST		230	45.25	148.5	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="RUSSPORT"/> <b>Ref Mon # 2</b> <input type="text" value="JEANPORT"/> <b>Ref Mon # 3</b> <input type="text" value="NONE"/>	<p>OLD PN: 91750003</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750003A	<b>Date Monumented</b> 12/23/1991	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80025
---------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	77,081.7260	
<b>Easting (M)</b>	298,401.3360	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	252,892.2961	
<b>Easting (SFT)</b>	979,005.0499	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	38	52.1763658
<b>Scale Factor</b>	0.999983594		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NBC IN 30" POST OAK	313	33.81	110.9
<b>MK # 2</b>	NBC IN 12" RED OAK	356	25.18	82.6
<b>MK # 3</b>	NBC IN 10" ELM	35	31.81	104.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	OLD PN: 91750003A
<b>Ref Mon # 2</b> JEANPORT	
<b>Ref Mon # 3</b> NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750004	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008940
--------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	76,395.5383	
<b>Easting (M)</b>	293,312.7567	
<b>Elevation (M)*</b>	117.095	
<b>Northing (SFT)</b>	250,641.0286	
<b>Easting (SFT)</b>	962,310.2693	
<b>Elevation (SFT)*</b>	384.169	

  

<b>Convergence Angle</b>	0	40	48.7859456
<b>Scale Factor</b>	0.999984740		
<b>Elevation Adjust. Factor</b>	0.9999816243		
<b>Combined Adjust. Factor</b>	0.9999663646		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	0	58.4539380
<b>Longitude</b>	93	10	8.2560468
<b>Ellipsoid Height:</b>	87.503		
<b>Grid Northing (Meters)</b>	76,396.0490		
<b>Grid Easting (Meters)</b>	293,312.9990		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER METER	186	7.20	23.6
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	337	22.30	73.2
<b>MK # 3</b>	COMBINATION POLE	173	3.00	9.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> JEANPORT <b>Ref Mon # 3</b> 91750003	Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NGVD 29

**Geoid Datum:** Geoid09

**Latitude** 35 0 58.4372736

**Longitude** 93 10 8.2653636

**Ellipsoid Height (M):** 88.109

**Geoid Height (M):** -29.132

  

**Location Description**

FROM THE JCT. OF HWY. 10 AND HWY. 28 ON THE SOUTH EDGE OF THE TOWN OF OLA. GO EAST ON HWY. 10 FOR 5.272 KM (3.27 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.90 METERS SOUTH OF THE CENTERLINE OF HWY. 10 AND 2.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "750004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750004A	<b>Date Monumented</b> 10/19/1994	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008940
---------------------------	--------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	76,395.6131	
<b>Easting (M)</b>	292,869.3660	
<b>Elevation (M)*</b>	118.741	
<b>Northing (SFT)</b>	250,641.2740	
<b>Easting (SFT)</b>	960,855.5783	
<b>Elevation (SFT)*</b>	389.569	

  

<b>Convergence Angle</b>	0	40	58.9621247
<b>Scale Factor</b>	0.999984748		
<b>Elevation Adjust. Factor</b>	0.9999813660		
<b>Combined Adjust. Factor</b>	0.9999661143		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" FLAG POLE	334	17.35	56.9
MK # 2	TELEPHONE JUNCTION BOX	85	20.40	66.9
MK # 3	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="RUSSPORT"/> <b>Ref Mon # 2</b> <input type="text" value="JEANPORT"/> <b>Ref Mon # 3</b> <input type="text" value="91750003"/>	Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS

  

Location Description	
FROM THE JCT. OF HWY. 10 AND HWY. 28 ON THE SOUTH EDGE OF THE TOWN OF OLA, GO EAST ON HWY. 10 FOR 4.828 KM (3.0 MILES) TO THE STATION ON THE LEFT. THE STATION IS IN FRONT OF THE AMERICAN LEGION HUT NO. 56 ON THE SOUTH EDGE OF THE PARKING LOT, 10.10 METERS NORTH OF THE CENTERLINE OF HWY. 10, 19.33 METERS SOUTH OF THE DOOR INTO THE THE LEGION HUT, 14.60 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "750004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750005	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 7	<b>Job Number:</b> 008826,080309,080385
--------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	78,664.2270	
<b>Easting (M)</b>	288,679.9370	
<b>Elevation (M)*</b>	121.786	
<b>Northing (SFT)</b>	258,084.2181	
<b>Easting (SFT)</b>	947,110.7600	
<b>Elevation (SFT)*</b>	399.561	

  

<b>Convergence Angle</b>	0	42	35.7573131
<b>Scale Factor</b>	0.999981377		
<b>Elevation Adjust. Factor</b>	0.9999808881		
<b>Combined Adjust. Factor</b>	0.9999622655		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	38	25.70	84.3
<b>MK # 2</b>	WATER METER	5	11.00	36.1
<b>MK # 3</b>	GAS METER	243	18.70	61.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CLARPORT	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
<b>Ref Mon # 2</b> Q 299	
<b>Ref Mon # 3</b> RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750005A	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 7	<b>Job Number:</b> 008826,080309,080385
---------------------------	-------------------------------------	------------------------------	-----------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	78,974.7581
<b>Easting (M)</b>	289,374.4060
<b>Elevation (M)*</b>	106.749
<b>Northing (SFT)</b>	259,103.0189
<b>Easting (SFT)</b>	949,389.1970
<b>Elevation (SFT)*</b>	350.224

  

<b>Convergence Angle</b>	0	42	19.9026513
<b>Scale Factor</b>	0.999980902		
<b>Elevation Adjust. Factor</b>	0.9999832480		
<b>Combined Adjust. Factor</b>	0.9999641503		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	160	18.10	59.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 CLARPORT	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750006	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,877.6950	
<b>Easting (M)</b>	284,965.6640	
<b>Elevation (M)*</b>	105.055	
<b>Northing (SFT)</b>	268,627.0710	
<b>Easting (SFT)</b>	934,924.8493	
<b>Elevation (SFT)*</b>	344.668	

  

<b>Convergence Angle</b>	0	44	1.9677286
<b>Scale Factor</b>	0.999976772		
<b>Elevation Adjust. Factor</b>	0.9999835137		
<b>Combined Adjust. Factor</b>	0.9999602861		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEASTERN GATE POST	233	27.68	90.8
<b>MK # 2</b>	0.15 METER CHERRY TREE = TBM 926	110	41.04	134.6
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	750006A
<b>Geodetic Azimuth</b>	143 08 28.68010
<b>Grid Azimuth</b>	143 52 30.59541

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> CLARPORT	
<b>Ref Mon # 2</b> Q 299	
<b>Ref Mon # 3</b> RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750006A	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,395.5940	
<b>Easting (M)</b>	285,317.5390	
<b>Elevation (M)*</b>	101.840	
<b>Northing (SFT)</b>	267,045.3780	
<b>Easting (SFT)</b>	936,079.2925	
<b>Elevation (SFT)*</b>	334.120	

  

<b>Convergence Angle</b>	0	43	53.7458019
<b>Scale Factor</b>	0.999977451		
<b>Elevation Adjust. Factor</b>	0.9999840182		
<b>Combined Adjust. Factor</b>	0.9999614696		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 4.83 KM (3.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 91.10 METERS SOUTHEAST OF THE CENTER OF A DRIVEWAY, 11.400 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 10 AND 1.53 METERS NORTHEAST OF A WITNESS POST SET IN A WEB WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF A 0.61 METER RCP	324	84.10	275.9
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	750006
<b>Geodetic Azimuth</b>	323 08 36.79705
<b>Grid Azimuth</b>	323 52 30.59541

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750007	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	82,452.9401	
<b>Easting (M)</b>	279,523.9170	
<b>Elevation (M)*</b>	104.366	
<b>Northing (SFT)</b>	270,514.3543	
<b>Easting (SFT)</b>	917,071.3844	
<b>Elevation (SFT)*</b>	342.407	

  

<b>Convergence Angle</b>	0	46	7.1096795
<b>Scale Factor</b>	0.999976062		
<b>Elevation Adjust. Factor</b>	0.9999836218		
<b>Combined Adjust. Factor</b>	0.9999596842		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	81	26.60	87.3
MK # 2	POWER POLE	81	6.40	21.0
MK # 3				

  

<b>AZ Mark Station</b>	750007A
<b>Geodetic Azimuth</b>	83 09 07.95190
<b>Grid Azimuth</b>	83 55 14.98803

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750007A	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	82,507.1780	
<b>Easting (M)</b>	280,033.1870	
<b>Elevation (M)*</b>	114.228	
<b>Northing (SFT)</b>	270,692.2998	
<b>Easting (SFT)</b>	918,742.2143	
<b>Elevation (SFT)*</b>	374.763	

  

<b>Convergence Angle</b>	0	45	55.4307378
<b>Scale Factor</b>	0.999975976		
<b>Elevation Adjust. Factor</b>	0.9999820742		
<b>Combined Adjust. Factor</b>	0.9999580507		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 10.62 KM (6.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.228 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.86 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE = TBM 916	268	8.61	28.2
MK # 2	GAS METER	82	34.87	114.4
MK # 3	WATER METER	67	9.11	29.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CLARPORT</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750008	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,544.4741	
<b>Easting (M)</b>	276,131.0350	
<b>Elevation (M)*</b>	116.896	
<b>Northing (SFT)</b>	267,533.8288	
<b>Easting (SFT)</b>	905,939.9040	
<b>Elevation (SFT)*</b>	383.516	

  

<b>Convergence Angle</b>	0	47	24.7403136
<b>Scale Factor</b>	0.999977412		
<b>Elevation Adjust. Factor</b>	0.9999816555		
<b>Combined Adjust. Factor</b>	0.9999590680		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.42 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.86 METERS SOUTH OF A WITNESS POST SET IN A BARBED WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	56	31.86	104.5
MK # 2	R/W MARKER AT CORNER OF A FENCE	117	29.16	95.7
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CLARPORT</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750008A	<b>Date Monumented</b> 5/21/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> 008826
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	81,715.7131	
<b>Easting (M)</b>	276,801.2100	
<b>Elevation (M)*</b>	108.797	
<b>Northing (SFT)</b>	268,095.6354	
<b>Easting (SFT)</b>	908,138.6365	
<b>Elevation (SFT)*</b>	356.945	

  

<b>Convergence Angle</b>	0	47	9.4051379
<b>Scale Factor</b>	0.999977155		
<b>Elevation Adjust. Factor</b>	0.9999829265		
<b>Combined Adjust. Factor</b>	0.9999600819		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 4.19 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 17.52 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    CLARPORT</p> <p>Ref Mon # 2    Q 299</p> <p>Ref Mon # 3    RUSSPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750009	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 89,861.4511		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 247,269.4080		<b>Latitude</b> 35 7 53.7811032
<b>Elevation (M)*</b> 185.205		<b>Longitude</b> 93 40 33.1819248
<b>Northing (SFT)</b> 294,820.4442		<b>Ellipsoid Height (M):</b> 155.473
<b>Easting (SFT)</b> 811,249.7161		<b>Geoid Height (M):</b> -29.736
<b>Elevation (SFT)*</b> 607.627		

  

<b>Convergence Angle</b> 0 58 30.7033013	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 4.35 KM (2.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.394 METERS EAST OF THE CENTER OF A ROAD TO A CHICKEN HOUSE, 11.237 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
<b>Scale Factor</b> 0.999966942	
<b>Elevation Adjust. Factor</b> 0.9999709361	
<b>Combined Adjust. Factor</b> 0.9999378791	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	150	30.11	98.8	<b>AZ Mark Station</b> 750009A
MK # 2	0.508 METER PECAN TREE	87	30.31	99.4	<b>Geodetic Azimuth</b> 106 22 55.62235
MK # 3	CHISELED SQUARE IN HEADWALL = TBM 9	261	45.22	148.4	<b>Grid Azimuth</b> 107 21 26.25310

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Q 299	ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK J 46 1934.
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750009A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,684.3391	
<b>Easting (M)</b>	247,836.0520	
<b>Elevation (M)*</b>	175.869	
<b>Northing (SFT)</b>	294,239.3692	
<b>Easting (SFT)</b>	813,108.7806	
<b>Elevation (SFT)*</b>	576.997	

  

<b>Convergence Angle</b>	0	58	17.6117566
<b>Scale Factor</b>	0.999967149		
<b>Elevation Adjust. Factor</b>	0.9999724012		
<b>Combined Adjust. Factor</b>	0.9999395511		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 8.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.93 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE GATE POST	112	9.06	29.7
MK # 2	CROSS TIE GATE POST	53	25.15	82.5
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    Q 299</p> <p>Ref Mon # 2    OZARPORT</p> <p>Ref Mon # 3    91750001</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750010	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 87,662.3571		<b>Latitude</b> 35 6 45.8948952
<b>Easting (M)</b> 253,678.2940		<b>Longitude</b> 93 36 18.6471612
<b>Elevation (M)*</b> 116.542		<b>Ellipsoid Height (M):</b> 86.849
<b>Northing (SFT)</b> 287,605.5833		<b>Geoid Height (M):</b> -29.693
<b>Easting (SFT)</b> 832,276.2029		
<b>Elevation (SFT)*</b> 382.355		

  

<b>Convergence Angle</b>	0	56	2.5897443
<b>Scale Factor</b>	0.999969576		
<b>Elevation Adjust. Factor</b>	0.9999817111		
<b>Combined Adjust. Factor</b>	0.9999512877		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.771 METERS EAST OF THE CENTER OF A DRIVEWAY, 8.563 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 8.454 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 3.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	190	13.92	45.7
MK # 2	WOODEN GATE POST	101	6.93	22.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 Q 299	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 91750001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750010A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,569.2371	
<b>Easting (M)</b>	253,108.3750	
<b>Elevation (M)*</b>	119.177	
<b>Northing (SFT)</b>	287,300.0721	
<b>Easting (SFT)</b>	830,406.3936	
<b>Elevation (SFT)*</b>	391.000	

  

<b>Convergence Angle</b>	0	56	15.6495858
<b>Scale Factor</b>	0.999969708		
<b>Elevation Adjust. Factor</b>	0.9999812976		
<b>Combined Adjust. Factor</b>	0.9999510062		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE	54	4.36	14.3
<b>MK # 2</b>	COMBINATION POLE	255	16.01	52.5
<b>MK # 3</b>	TELEPHONE JUNCTION BOX	127	24.31	79.7

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>91750001</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	OZARPORT	Ref Mon # 3	91750001	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Q 299						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	91750001						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 6 42.5714688
<b>Longitude</b>	93 36 41.0906412
<b>Ellipsoid Height (M):</b>	89.477
<b>Geoid Height (M):</b>	-29.700

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.819 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 15.219 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.722 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

<b>AZ Mark Station</b>	750010
<b>Geodetic Azimuth</b>	79 46 57.81100
<b>Grid Azimuth</b>	80 43 13.38516

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750011	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 87,248.6391		<b>Latitude</b> 35 6 36.0641376
<b>Easting (M)</b> 260,635.5740		<b>Longitude</b> 93 31 43.6766052
<b>Elevation (M)*</b> 114.504		<b>Ellipsoid Height (M):</b> 84.908
<b>Northing (SFT)</b> 286,248.2434		<b>Geoid Height (M):</b> -29.631
<b>Easting (SFT)</b> 855,101.8790		
<b>Elevation (SFT)*</b> 375.669		

  

<b>Convergence Angle</b>	0	53	22.5846176
<b>Scale Factor</b>	0.999969967		
<b>Elevation Adjust. Factor</b>	0.9999820309		
<b>Combined Adjust. Factor</b>	0.9999519985		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SW CORNER OF A PAVILLION CONCRETE S	72	22.86	75.0
<b>MK # 2</b>	TELEPHONE JUNCTION BOX	189	28.85	94.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750011A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 86,989.5641		<b>Latitude</b> 35 6 27.9312552
<b>Easting (M)</b> 261,178.7810		<b>Longitude</b> 93 31 22.0698876
<b>Elevation (M)*</b> 114.221		<b>Ellipsoid Height (M):</b> 84.625
		<b>Geoid Height (M):</b> -29.628

  

<b>Northing (SFT)</b> 285,398.2616		<b>Location Description</b>
<b>Easting (SFT)</b> 856,884.0507		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHTWAY 309 NORTH, IN HAVANNA, GO EAST ON STATE HIGHWAY 10 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.431 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750011A 1998" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>Elevation (SFT)*</b> 374.740		
<b>Convergence Angle</b> 0 53 10.0116874		
<b>Scale Factor</b> 0.999970292		
<b>Elevation Adjust. Factor</b> 0.9999820753		
<b>Combined Adjust. Factor</b> 0.9999523679		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	0.305 METER PINE TREE	100	23.08	75.7
<b>MK # 2</b>	LIGHT POLE	158	30.21	99.1
<b>MK # 3</b>	COMBINATION POLE	291	42.52	139.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750012	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	85,893.7961	
<b>Easting (M)</b>	265,887.7790	
<b>Elevation (M)*</b>	113.860	
<b>Northing (SFT)</b>	281,803.2294	
<b>Easting (SFT)</b>	872,333.4883	
<b>Elevation (SFT)*</b>	373.556	

  

<b>Convergence Angle</b>	0	51	21.4425439
<b>Scale Factor</b>	0.999971634		
<b>Elevation Adjust. Factor</b>	0.9999821320		
<b>Combined Adjust. Factor</b>	0.9999537665		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 89.395 METERS WEST OF THE ENTRANCE TO A BASEBALL FIELD, 10.669 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.33 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	IRON PIPE FENCE POST	103	30.25	99.3
<b>MK # 2</b>	IRON PIPE FENCE POST	355	1.57	5.2
<b>MK # 3</b>	IRON PIPE FENCE POST	286	31.21	102.4

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    Q 299</p> <p><b>Ref Mon # 2</b>    OZARPORT</p> <p><b>Ref Mon # 3</b>    91750001</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750012A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	85,717.1390				
<b>Easting (M)</b>	266,373.7630				
<b>Elevation (M)*</b>	114.586				
<b>Northing (SFT)</b>	281,223.6469				
<b>Easting (SFT)</b>	873,927.9208				
<b>Elevation (SFT)*</b>	375.938				

  

<b>Convergence Angle</b>	0	51	10.2175261
<b>Scale Factor</b>	0.999971859		
<b>Elevation Adjust. Factor</b>	0.9999820180		
<b>Combined Adjust. Factor</b>	0.9999538775		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF A CONCRETE HEADWALL	85	20.94	68.7
<b>MK # 2</b>	COMBINATION POLE	283	19.80	65.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 5 49.2036792
<b>Longitude</b>	93 27 56.2023144
<b>Ellipsoid Height (M):</b>	85.015
<b>Geoid Height (M):</b>	-29.575

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.398 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.496 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750013	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	84,378.5431	
<b>Easting (M)</b>	270,273.0850	
<b>Elevation (M)*</b>	118.758	
<b>Northing (SFT)</b>	276,831.9368	
<b>Easting (SFT)</b>	886,720.9464	
<b>Elevation (SFT)*</b>	389.625	

  

<b>Convergence Angle</b>	0	49	40.1944028
<b>Scale Factor</b>	0.999973580		
<b>Elevation Adjust. Factor</b>	0.9999813633		
<b>Combined Adjust. Factor</b>	0.9999549438		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THOUGH A GATE ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 38.155 METERS SOUTH OF THE CENTER OF THE RUNWAY, 23.482 METERS EAST OF THE CENTER OF A TURN AROUND AND 1.06 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDRD 64mm CAP STAMPED "750013 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	IRON PIPE FENCE POST	282	21.95	72.0		
MK # 2	RUNWAY LIGHT	14	23.75	77.9		
MK # 3	CENTER OF A CONCRETE HEADWALL	66	22.00	72.2		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="Q 299"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="OZARPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="91750001"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750013A	<b>Date Monumented</b> 8/10/1998	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 10	<b>Job Number:</b> R80019
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	84,505.2921	
<b>Easting (M)</b>	269,846.3990	
<b>Elevation (M)*</b>	115.352	
<b>Northing (SFT)</b>	277,247.7792	
<b>Easting (SFT)</b>	885,321.0607	
<b>Elevation (SFT)*</b>	378.451	

  

<b>Convergence Angle</b>	0	49	50.0374253
<b>Scale Factor</b>	0.999973417		
<b>Elevation Adjust. Factor</b>	0.9999818978		
<b>Combined Adjust. Factor</b>	0.9999553153		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RUNWAY LIGHT	18	23.05	75.6
<b>MK # 2</b>	IRON PIPE FENCE POST	108	21.16	69.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> Q 299	
<b>Ref Mon # 2</b> OZARPORT	
<b>Ref Mon # 3</b> 91750001	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 5 11.5386216
<b>Longitude</b>	93 25 38.4119364
<b>Ellipsoid Height (M):</b>	85.826
<b>Geoid Height (M):</b>	-29.526

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THROUGH A GATE, ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.499 METERS SOUTH OF THE CENTER OF THE RUNWAY AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "750013A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750014	<b>Date Monumented</b> 11/8/2004	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 60	<b>Job Number:</b> 080286
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	71,320.5621	
<b>Easting (M)</b>	287,164.3790	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	233,990.8775	
<b>Easting (SFT)</b>	942,138.4668	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	8.4331629
<b>Scale Factor</b>	0.999993032		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CULVERT	130	15.50	50.9
MK # 2	TELEPHONE RISER	112	32.80	107.6
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 DQUA	
Ref Mon # 3 AHTD LROC	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 58 11.3293776
<b>Longitude</b>	93 14 8.2506300
<b>Ellipsoid Height (M):</b>	88.800
<b>Geoid Height (M):</b>	-29.004

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.8 MILES TO THE STATION MARK ON THE LEFT, WEST 18.10 METERS OF A DIRT DRIVE, 17.90 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750014 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750014A	<b>Date Monumented</b> 11/8/2004	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 60	<b>Job Number:</b> 080286
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	71,439.7380	
<b>Easting (M)</b>	286,680.6990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	234,381.8738	
<b>Easting (SFT)</b>	940,551.5933	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	43	19.5619963
<b>Scale Factor</b>	0.999992843		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.5 MILES TO THE STATION MARK ON THE RIGHT, 12.65 METERS SOUTH OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750014A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE RISER	115	17.30	56.8
<b>MK # 2</b>	POWER POLE	276	6.60	21.7
<b>MK # 3</b>	WEST END OF CULVERT	85	16.65	54.6

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> RUSSPORT <b>Ref Mon # 2</b> DQUA <b>Ref Mon # 3</b> AHTD LROC	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750015	<b>Date Monumented</b> 11/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Yell	<b>Route</b> 7	<b>Job Number:</b> 080309,fa7519
--------------------------	--------------------------------------	------------------------------	-----------------------	-------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	83,598.4351				
<b>Easting (M)</b>	291,356.7950				
<b>Elevation (M)*</b>	95.190				
<b>Northing (SFT)</b>	274,272.5325				
<b>Easting (SFT)</b>	955,893.0849				
<b>Elevation (SFT)*</b>	312.301				

  

<b>Convergence Angle</b>	0	41	35.6769457
<b>Scale Factor</b>	0.999974263		
<b>Elevation Adjust. Factor</b>	0.9999850619		
<b>Combined Adjust. Factor</b>	0.9999593253		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 7 and 10 in Ola go north on hwy-7 for 3.90 miles to the station on the right next to the right of way fence. 69.50 feet southeast of the center of hwy-7 and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "750015 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Russport</td> </tr> <tr> <td>Ref Mon # 3</td> <td>750005</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	Russport	Ref Mon # 3	750005	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">           3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.         </td> </tr> </table>	Comments	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
Ref Mon # 1	ARLR								
Ref Mon # 2	Russport								
Ref Mon # 3	750005								
Comments									
3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.									

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750015A	<b>Date Monumented</b> 11/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Yell	<b>Route</b> 7	<b>Job Number:</b> 080309
---------------------------	--------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	83,962.1281				
<b>Easting (M)</b>	291,776.9340				
<b>Elevation (M)*</b>	97.246				
<b>Northing (SFT)</b>	275,465.7486				
<b>Easting (SFT)</b>	957,271.4910				
<b>Elevation (SFT)*</b>	319.047				

  

<b>Convergence Angle</b>	0	41	26.1274308
<b>Scale Factor</b>	0.999973759		
<b>Elevation Adjust. Factor</b>	0.9999847392		
<b>Combined Adjust. Factor</b>	0.9999584986		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole with 2 guy wires	294	29.84	97.9
<b>MK # 2</b>	Wooden brace post	231	30.66	100.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
<b>Ref Mon # 2</b> Russport	
<b>Ref Mon # 3</b> 750005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750016	<b>Date Monumented</b> 11/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Yell	<b>Route</b> 154	<b>Job Number:</b> 080309,080377,fa7519
--------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,090.1161	
<b>Easting (M)</b>	293,387.1510	
<b>Elevation (M)*</b>	105.818	
<b>Northing (SFT)</b>	285,728.1559	
<b>Easting (SFT)</b>	962,554.3446	
<b>Elevation (SFT)*</b>	347.173	

  

<b>Convergence Angle</b>	0	40	49.9940967
<b>Scale Factor</b>	0.999969593		
<b>Elevation Adjust. Factor</b>	0.9999833939		
<b>Combined Adjust. Factor</b>	0.9999529874		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	72	16.76	55.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> Russport <b>Ref Mon # 3</b> 750005	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

  

<b>Location Description</b>
To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 177 feet to the station on the left in an old parking area. 45.6 feet south of the center of hwy-154 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "750016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

  

<b>AZ Mark Station</b>	750016A
<b>Geodetic Azimuth</b>	273 44 51
<b>Grid Azimuth</b>	274 25 41

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750016A	<b>Date Monumented</b> 11/21/2006	<b>Monumented By</b> AHTD	<b>County</b> Yell	<b>Route</b> 154	<b>Job Number:</b> 080309,080377
---------------------------	--------------------------------------	------------------------------	-----------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,130.4021	
<b>Easting (M)</b>	292,866.9270	
<b>Elevation (M)*</b>	105.902	
<b>Northing (SFT)</b>	285,860.3276	
<b>Easting (SFT)</b>	960,847.5763	
<b>Elevation (SFT)*</b>	347.446	

  

<b>Convergence Angle</b>	0	41	1.9589104
<b>Scale Factor</b>	0.999969549		
<b>Elevation Adjust. Factor</b>	0.9999833808		
<b>Combined Adjust. Factor</b>	0.9999529304		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fire hydrant	337	5.15	16.9
<b>MK # 2</b>	Flag pole	177	23.98	78.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> Russport <b>Ref Mon # 3</b> 750005	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    6    46.5889428
<b>Longitude</b>	93    10    30.9032472
<b>Ellipsoid Height (M):</b>	76.890
<b>Geoid Height (M):</b>	-29.141

Location Description
To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 0.30 miles to the station on the right. 35.1 feet north of the center of hwy-154, 32.4 feet east of a driveway and 1.60 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "750016A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

<b>AZ Mark Station</b>	750016
<b>Geodetic Azimuth</b>	93 44 40
<b>Grid Azimuth</b>	94 25 41

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750017	<b>Date Monumented</b> 10/12/2010	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 7	<b>Job Number:</b> 080377
--------------------------	--------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	91,093.6591	
<b>Easting (M)</b>	294,070.6740	
<b>Elevation (M)*</b>	112.862	
<b>Northing (SFT)</b>	298,863.1132	
<b>Easting (SFT)</b>	964,796.8696	
<b>Elevation (SFT)*</b>	370.280	

  

<b>Convergence Angle</b>	0	40	35.3742303
<b>Scale Factor</b>	0.999964634		
<b>Elevation Adjust. Factor</b>	0.9999822887		
<b>Combined Adjust. Factor</b>	0.9999469233		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	
<b>Ref Mon # 1</b>	ARLR
<b>Ref Mon # 2</b>	ARFY
<b>Ref Mon # 3</b>	ARHP

  

Comments
DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 154 AND STATE HIGHWAY 7, IN CENTERVILLE, GO NORTH ON HIGHWAY 7 2.5 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 21.6 FEET AND EAST 22.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 8 55.6519632
<b>Longitude</b>	93 9 45.2171844
<b>Ellipsoid Height (M):</b>	83.720
<b>Geoid Height (M):</b>	-29.141

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750017A	<b>Date Monumented</b> 10/12/2010	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 7	<b>Job Number:</b> 080377
---------------------------	--------------------------------------	------------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	90,507.9292				
<b>Easting (M)</b>	293,866.7570				
<b>Elevation (M)*</b>	118.590				
<b>Northing (SFT)</b>	296,941.4311				
<b>Easting (SFT)</b>	964,127.8519				
<b>Elevation (SFT)*</b>	389.074				

  

<b>Convergence Angle</b>	0	40	39.9026747
<b>Scale Factor</b>	0.999965336		
<b>Elevation Adjust. Factor</b>	0.9999813897		
<b>Combined Adjust. Factor</b>	0.9999467263		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 154 AND STATE HIGHWAY 7, IN CENTERVILLE, GO NORTH ON HIGHWAY 7 2.2 MILES TO THE STATION MARK ON THE RIGHT, EAST OF THE CENTERLINE OF THE HIGHWAY 22.2 FEET AND SOUTH 32.7 FEET OF A ASPHALT DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	29	34.63	113.6
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARFY</p> <p>Ref Mon # 3    ARHP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750018	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428,080495
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,979.4540	0.0056
<b>Easting (M)</b>	286,528.6793	0.0055
<b>Elevation (M)*</b>	144.971	

  

<b>Northing (SFT)</b>	311,611.7587	
<b>Easting (SFT)</b>	940,052.8420	
<b>Elevation (SFT)*</b>	475.627	

  

<b>Convergence Angle</b>	0 43	29.8813282
<b>Scale Factor</b>	0.999960307	
<b>Elevation Adjust. Factor</b>	0.9999772498	
<b>Combined Adjust. Factor</b>	0.9999375577	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Latitude</b>	35 10	58.7443440
<b>Longitude</b>	93 14	45.1095360
<b>Ellipsoid Height:</b>	115.600	
<b>Grid Northing (Meters)</b>	94,979.4640	
<b>Grid Easting (Meters)</b>	286,528.6794	

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.25 MILES TO THE STATION ON THE LEFT, SOUTHEAST 29.3 FEET OF THE CENTERLINE OF HIGHWAY 27 AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	28	12.64	41.5
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B &amp; UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&amp;F during Job 080495 in 04/2015.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750018A	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	94,796.6531	
<b>Easting (M)</b>	286,001.3667	
<b>Elevation (M)*</b>	139.155	
<b>Northing (SFT)</b>	311,012.0194	
<b>Easting (SFT)</b>	938,322.8172	
<b>Elevation (SFT)*</b>	456.546	

  

<b>Convergence Angle</b>	0	43	41.9549623
<b>Scale Factor</b>	0.999960515		
<b>Elevation Adjust. Factor</b>	0.9999781624		
<b>Combined Adjust. Factor</b>	0.9999386783		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	340	6.43	21.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B &amp; UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.</td> </tr> </table>	Comments	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.
Comments			
ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.			

  

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	35 10 52.5955800
<b>Longitude</b>	93 15 5.8582080
<b>Ellipsoid Height (M):</b>	109.776
<b>Geoid Height (M):</b>	-29.380

  

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.55 MILES TO THE STATION ON THE RIGHT, EAST 40.8 FEET OF THE CENTERLINE OF SLO FORK ROAD, NORTH 23.1 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTH 15.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750019	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428,080495
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	93,074.1862	
<b>Easting (M)</b>	282,967.8676	
<b>Elevation (M)*</b>	115.328	
<b>Northing (SFT)</b>	305,360.8926	
<b>Easting (SFT)</b>	928,370.4123	
<b>Elevation (SFT)*</b>	378.373	

  

<b>Convergence Angle</b>	0	44	51.2004022
<b>Scale Factor</b>	0.999962488		
<b>Elevation Adjust. Factor</b>	0.9999819016		
<b>Combined Adjust. Factor</b>	0.9999443902		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 7.75 MILES TO THE STATION ON THE RIGHT, EAST 50.0 FEET OF THE CENTER OF A DRIVEWAY, SOUTH 20.3 FEET OF THE CENTER OF A GRAVEL DRIVEWAY AND NORTH 30.0 FEET OF THE CENTERLINE OF HIGHWAY 27. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					<b>AZ Mark Station</b>	750019A
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<p>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B &amp; UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&amp;F during Job 080495 in 04/2015.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750019A	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428,080495
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	92,834.6996	
<b>Easting (M)</b>	282,472.1652	
<b>Elevation (M)*</b>	109.711	
<b>Northing (SFT)</b>	304,575.1769	
<b>Easting (SFT)</b>	926,744.0953	
<b>Elevation (SFT)*</b>	359.942	

  

<b>Convergence Angle</b>	0	45	2.5258235
<b>Scale Factor</b>	0.999962770		
<b>Elevation Adjust. Factor</b>	0.9999827831		
<b>Combined Adjust. Factor</b>	0.9999455538		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	265	11.34	37.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750020	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428,080495
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,925.9204	0.0055
<b>Easting (M)</b>	278,552.8321	0.0055
<b>Elevation (M)*</b>	122.292	
<b>Northing (SFT)</b>	295,031.9572	
<b>Easting (SFT)</b>	913,885.4166	
<b>Elevation (SFT)*</b>	401.220	

  

<b>Convergence Angle</b>	0	46	31.7339275
<b>Scale Factor</b>	0.999966276		
<b>Elevation Adjust. Factor</b>	0.9999808087		
<b>Combined Adjust. Factor</b>	0.9999470854		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	8	11.3817840
<b>Longitude</b>	93	19	57.6248160
<b>Ellipsoid Height:</b>	92.794		
<b>Grid Northing (Meters)</b>	89,925.9336		
<b>Grid Easting (Meters)</b>	278,552.8423		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	155	5.70	18.7
MK # 2	TELEPHONE BOX	80	15.97	52.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID09
<b>Latitude</b>	35 8 11.3813520
<b>Longitude</b>	93 19 57.6252120
<b>Ellipsoid Height (M):</b>	92.767 0.0122
<b>Geoid Height (M):</b>	-29.510

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 11.10 MILES TO THE STATION ON THE LEFT. NORTHEAST 67.6 FEET OF THE CENTER OF A GRAVEL DRIVEWAY, NORTHWEST 22.0 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 19.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

<b>AZ Mark Station</b>	750020A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750020A	<b>Date Monumented</b> 10/3/2011	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080428,080495
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	89,815.8078	0.0061
<b>Easting (M)</b>	278,203.2155	0.0062
<b>Elevation (M)*</b>	122.396	
<b>Northing (SFT)</b>	294,670.6961	
<b>Easting (SFT)</b>	912,738.3829	
<b>Elevation (SFT)*</b>	401.561	

  

<b>Convergence Angle</b>	0	46	39.7353036
<b>Scale Factor</b>	0.999966416		
<b>Elevation Adjust. Factor</b>	0.9999807924		
<b>Combined Adjust. Factor</b>	0.9999472091		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	8	7.6549920
<b>Longitude</b>	93	20	11.3404920
<b>Ellipsoid Height:</b>	92.895		
<b>Grid Northing (Meters)</b>	89,815.8035		
<b>Grid Easting (Meters)</b>	278,204.1059		

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 11.30 MILES TO THE STATION ON THE RIGHT. SOUTH 99.0 FEET OF THE CENTER OF GRAVEL DRIVEWAY, NORTHWEST 39.5 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 8.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750020A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	52	25.42	83.4
MK # 2	TELEPHONE BOX	241	36.58	120.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B &amp; UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&amp;F during job 080495 in 04/2015.04/2015.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750021	<b>Date Monumented</b> 10/1/2014	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 154	<b>Job Number:</b> 080495
--------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	85,634.0170	0.0044
<b>Easting (M)</b>	275,536.9261	0.0044
<b>Elevation (M)*</b>	118.714	
<b>Northing (SFT)</b>	280,950.9374	
<b>Easting (SFT)</b>	903,990.7317	
<b>Elevation (SFT)*</b>	389.481	

  

<b>Convergence Angle</b>	0	47	39.6847373
<b>Scale Factor</b>	0.999971794		
<b>Elevation Adjust. Factor</b>	0.9999813702		
<b>Combined Adjust. Factor</b>	0.9999531648		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Vertical Determined By:</b> None	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID09
<b>Latitude</b>	35 5 50.7806880
<b>Longitude</b>	93 21 54.3994200
<b>Ellipsoid Height (M):</b>	89.140 0.0108
<b>Geoid Height (M):</b>	-29.567

  

<b>Location Description</b>
<p>TO REACH FROM THE JUNCTION OF HWY 154 AND HWY 27 NEAR DANVILLE. GO EAST ON HWY 154 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 34 FT. NORTH OF THE CENTERLINE OF HWY 154. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750021 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	285	21.00	68.9
MK # 2	POWER POLE	100	28.00	91.9
MK # 3	METAL FENCE POST	350	1.80	5.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ARLR	Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.
Ref Mon # 2 P777	
Ref Mon # 3 SAL5	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750021A	<b>Date Monumented</b> 10/1/2014	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080495
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	85,890.3636	0.0043			
<b>Easting (M)</b>	278,151.1375	0.0043			
<b>Elevation (M)*</b>	113.785				
<b>Northing (SFT)</b>	281,791.9679				
<b>Easting (SFT)</b>	912,567.5236				
<b>Elevation (SFT)*</b>	373.308				

  

<b>Convergence Angle</b>	0	46	39.7075679
<b>Scale Factor</b>	0.999971408		
<b>Elevation Adjust. Factor</b>	0.9999821438		
<b>Combined Adjust. Factor</b>	0.9999535523		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	235	20.00	65.6
<b>MK # 2</b>	POWER POLE	50	40.80	133.9
<b>MK # 3</b>	TELEPHONE BOX	165	23.50	77.1

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> SAL5	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	None
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID09
<b>Latitude</b>	35 6 0.2621520
<b>Longitude</b>	93 20 11.3280000
<b>Ellipsoid Height (M):</b>	84.223 0.0106
<b>Geoid Height (M):</b>	-29.571

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY 27 AND HWY 154 NEAR DANVILLE. GO NORTH ON HWY 27 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 3.4 FT. EAST OF A WITNESS POST, AND 36 FT. WEST OF THE CENTERLINE OF HWY 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750021A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750022	<b>Date Monumented</b> 10/1/2014	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080495
--------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 97,582.3351	<b>0.0040</b>	<b>Geoid Datum:</b> GEOID09
<b>Easting (M)</b> 290,499.8574	<b>0.0039</b>	<b>Latitude</b> 35 12 24.8034240
<b>Elevation (M)*</b> 126.207		<b>Longitude</b> 93 12 9.4156920
<b>Northing (SFT)</b> 320,151.3777		<b>Ellipsoid Height (M):</b> 96.889 0.0090
<b>Easting (SFT)</b> 953,081.6155		<b>Geoid Height (M):</b> -29.307
<b>Elevation (SFT)*</b> 414.064		

  

<b>Convergence Angle</b> 0 41 59.2832161	<b>Scale Factor</b> 0.999957492	<b>Location Description</b> TO REACH FROM THE INTERSECTION OF HWY 27 AND HWY. 7 IN DARDANELLE. GO SOUTH ON HWY 27 FOR 2.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1 FT. NORTHWEST OF A WITNESS POST, AND 37 FT. NORTHWEST OF THE CENTERLINE OF HWY. 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750022 2014" SET ON TOP OF A 5/8 IN. BY 4FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.
<b>Elevation Adjust. Factor</b> 0.9999801944	<b>Combined Adjust. Factor</b> 0.9999376873	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL FENCE CORNER POST	325	1.40	4.6
<b>MK # 2</b>	TELEPHONE BOX	230	1.40	4.6
<b>MK # 3</b>	POWER POLE	110	22.70	74.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR	Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.
<b>Ref Mon # 2</b> P777	
<b>Ref Mon # 3</b> SAL5	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750022A	<b>Date Monumented</b> 10/2/2014	<b>Monumented By</b> AHTD	<b>County</b> YELL	<b>Route</b> 27	<b>Job Number:</b> 080495
---------------------------	-------------------------------------	------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 97,944.9491	<b>0.0039</b>	<b>Geoid Datum:</b> GEOID09
<b>Easting (M)</b> 290,917.4203	<b>0.0039</b>	<b>Latitude</b> 35 12 36.7345800
<b>Elevation (M)*</b> 114.102		<b>Longitude</b> 93 11 53.0821680
<b>Northing (SFT)</b> 321,341.0538		<b>Ellipsoid Height (M):</b> 84.789 0.0090
<b>Easting (SFT)</b> 954,451.5698		<b>Geoid Height (M):</b> -29.299
<b>Elevation (SFT)*</b> 374.349		<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 200px; width: 100%;"></div>
<b>Convergence Angle</b> 0 41 49.7787527		
<b>Scale Factor</b> 0.999957115		
<b>Elevation Adjust. Factor</b> 0.9999820940		
<b>Combined Adjust. Factor</b> 0.9999392098		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	POWER POLE	39	9.70	31.8	<b>AZ Mark Station</b> 750022
<b>MK # 2</b>	16" CEDAR TREE	99	19.00	62.3	<b>Geodetic Azimuth</b>
<b>MK # 3</b>	30" PLASTIC PIPE UNDER FIELD ENTRANCE	245	11.80	38.7	<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> P777 <b>Ref Mon # 3</b> SAL5	Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750023	<b>Date Monumented</b> 5/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> YELL	<b>Route</b> 154	<b>Job Number:</b> 080618
--------------------------	------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 87,181.9222	<b>0.0050</b>	<b>Geoid Datum:</b> Geoid 18
<b>Easting (M)</b> 287,545.6359	<b>0.0050</b>	<b>Latitude</b> 35 6 46.1484612
<b>Elevation (M)*</b>		<b>Longitude</b> 93 14 1.0558896
<b>Northing (SFT)</b> 286,029.3564		<b>Ellipsoid Height (M):</b> 80.243 0.0210
<b>Easting (SFT)</b> 943,389.3071		<b>Geoid Height (M):</b> -29.380 0.0210
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b> 0 43 4.2465497	<b>Scale Factor</b> 0.999969566	<b>Location Description</b>
<b>Elevation Adjust. Factor</b>		<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.45 MILES TO THE MARK ON THE RIGHT, S 42.9' OF THE C/L OF THE HIGHWAY AND 10.7' EAST OF A FIELD ROAD AND 2' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
<b>Combined Adjust. Factor</b>		

  

SUPERCEDED CONTROL				
<b>Horizontal Datum</b>		<b>Latitude</b>		
<b>Longitude</b>				
<b>Ellipsoid Height:</b>				
<b>Grid Northing (Meters)</b>				
<b>Grid Easting (Meters)</b>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	C/L GATE	191	8.11	26.6	<b>AZ Mark Station</b> 750023A
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARRV</p> <p>Ref Mon # 3    ARGS</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750023A	<b>Date Monumented</b> 5/4/2020	<b>Monumented By</b> ARDOT	<b>County</b> YELL	<b>Route</b> 154	<b>Job Number:</b> 080618
---------------------------	------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	87,178.5122	0.0040	
<b>Easting (M)</b>	287,985.1571	0.0050	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	286,018.1688		
<b>Easting (SFT)</b>	944,831.3029		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	42	54.1462498
<b>Scale Factor</b>	0.999969564		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ TB	231	9.57	31.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARRV <b>Ref Mon # 3</b> ARGS	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    35    6    46.2161556

**Longitude**    93    13    43.6984140

**Ellipsoid Height (M):**    74.598    0.0200

**Geoid Height (M):**    -29.373    0.0200

  

**Location Description**

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.75 MILES TO THE MARK ON THE RIGHT, S 17.6' OF THE C/L OF THE HIGHWAY AND 116.9' WEST OF THE C/L OF COBALT LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

<b>AZ Mark Station</b>	750023
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750024	<b>Date Monumented</b> 5/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> YELL	<b>Route</b> 28	<b>Job Number:</b> 080678
--------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	73,077.8980	0.0030			
<b>Easting (M)</b>	279,236.3556	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	239,756.4037				
<b>Easting (SFT)</b>	916,127.9433				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	46	10.8212466
<b>Scale Factor</b>	0.999990298		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	53	7.19	23.6
MK # 2	COMBINATION POLE	290	9.26	30.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input type="text" value="ARFS"/>	
Ref Mon # 2 <input type="text" value="ARGS"/>	
Ref Mon # 3 <input type="text" value="ARRV"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 59 5.0083692
<b>Longitude</b>	93 19 21.6865416
<b>Ellipsoid Height (M):</b>	86.671 0.0130
<b>Geoid Height (M):</b>	-29.356 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 28 AND STATE HIGHWAY 60, IN PLAINVIEW, GO WEST ON HIGHWAY 28 1.65 MILES TO THE MARK ON THE RIGHT, 31.2' NORTH OF THE C/L OF THE HIGHWAY AND 45' WEST OF THE C/L OF DOC BULL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 750024" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 750024A	<b>Date Monumented</b> 5/12/2021	<b>Monumented By</b> ARDOT	<b>County</b> YELL	<b>Route</b> 28	<b>Job Number:</b> 080678
---------------------------	-------------------------------------	-------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	73,074.9475	0.0030			
<b>Easting (M)</b>	279,651.3836	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	239,746.7236				
<b>Easting (SFT)</b>	917,489.5810				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	46	1.2990085
<b>Scale Factor</b>	0.999990293		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	283	21.58	70.8
<b>MK # 2</b>	CENTER OF GATE	71	13.93	45.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARFS	
<b>Ref Mon # 2</b> ARGs	
<b>Ref Mon # 3</b> ARRv	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 59 5.0932356
<b>Longitude</b>	93 19 5.3224716
<b>Ellipsoid Height (M):</b>	88.984 0.0130
<b>Geoid Height (M):</b>	-29.347 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 28 AND STATE HIGHWAY 60, IN PLAINVIEW, GO WEST ON HIGHWAY 28 1.4 MILES TO THE MARK ON THE RIGHT, 27' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 750024A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 82 V 10 W	<b>Date Monumented</b> 1/1/1967	<b>Monumented By</b> MsHD	<b>County</b> S/WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> 020160
-----------------------------	------------------------------------	------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	474,051.4526	
<b>Easting (M)</b>	482,988.9044	
<b>Elevation (M)*</b>	37.860	
<b>Northing (SFT)</b>	1,555,283.8074	
<b>Easting (SFT)</b>	1,584,606.0972	
<b>Elevation (SFT)*</b>	124.212	

  

<b>Convergence Angle</b>	0	29	56.0441522
<b>Scale Factor</b>	0.999993264		
<b>Elevation Adjust. Factor</b>	0.9999940586		
<b>Combined Adjust. Factor</b>	0.9999873226		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
STATION IS LOCATED ABOUT 16.5 KM (10.3 MI) EAST OF LAKE VILLAGE AR, 10.3 KM (6.4 MI) SOUTHWEST OF GREENVILLE, AND 10.3 KM (6.4 MI) NORTHWEST OF WAYSIDE. OWNERSHIP-- MISSISSIPPI STATE HIGHWAY DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 65 AND 82 IN LAKE VILLAGE AR. GO SOUTHEAST ON U.S. HIGHWAYS 65 AND 82 FOR 7.52 KM (4.67 MI) TO WHERE U.S. HIGHWAY 65 TURNS SOUTH. CONTINUE EASTERLY ON U.S. HIGHWAY 82 FOR 7.95 KM (4.94 MI) TO THE JUNCTION OF STATE HIGHWAY 142 ON THE RIGHT. CONTINUE NORTHEASTERLY ON U.S. HIGHWAY 82, CROSSING THE MISSISSIPPI RIVER BRIDGE AND ENTERING THE STATE OF MISSISSIPPI FOR 6.01 KM (3.73 MI) TO THE JUNCTION OF STATE HIGHWAY 454 ON THE RIGHT. CONTINUE NORTHEAST ON U.S. HIGHWAY 82 FOR 3.02 KM (1.88 MI) TO THE MT. CALVARY MB CHURCH AND THE STATION ON THE LEFT. IN THE SOUTHEAST CORNER OF THE CHURCH LAWN. STATION IS A STANDARD MSHD BENCH MARK DISK STAMPED---82V-10W 1966 BM---. SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT PROJECTS 4-CM ABOVE THE GROUND. 16.5 M (54.1 FT) NORTHWEST OF THE CENTERLINE OF THE SOUTHWEST BOUND LANES OF U.S. HIGHWAY 82, 0.73 M (2.40 FT) SOUTHWEST OF A UTILITY POLE				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF THE CHURCH	E-NE	50.30	165.0
MK # 2	A METAL WITNESS POST	NE	0.30	1.0
MK # 3	CENTER OF A GRAVELED DRIVEWAY	NNE	5.50	18.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text"/> Ref Mon # 2 <input style="width: 100%;" type="text"/> Ref Mon # 3 <input style="width: 100%;" type="text"/>	Position and elevation from NGS datasheet     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 83-99	<b>Date Monumented</b> 1/5/2001	<b>Monumented By</b> S. ARMY C.O.	<b>County</b> PRAIRIE	<b>Route</b> 63	<b>Job Number:</b> 060986
-------------------------	------------------------------------	--------------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	33,339.5178	
<b>Easting (M)</b>	440,813.8171	
<b>Elevation (M)*</b>	66.628	
<b>Northing (SFT)</b>	109,381.4013	
<b>Easting (SFT)</b>	1,446,236.6649	
<b>Elevation (SFT)*</b>	218.595	

  

<b>Convergence Angle</b>	0	15	32.3673527
<b>Scale Factor</b>	1.000072598		
<b>Elevation Adjust. Factor</b>	0.9999895440		
<b>Combined Adjust. Factor</b>	1.0000621412		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRIE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 7.32 KM (4.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 3.70 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.73 METERS WEST OF A WITNESS POST. THE STATION MARK IS U.S. ARMY C.O.E. MEMPHIS DISTRICT G.P.S. CAP STAMPED " 83-99" SET ON TOP OF A ROD. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 935. THE SHOT DISTANCE IS 772.287 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	17.30	56.8
MK # 2	COMBINATION POLE	90	6.60	21.7
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    BRINKLEYPORT</p> <p>Ref Mon # 2    PAGIS 1001</p> <p>Ref Mon # 3    ALMYPORT AZ MK</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Elevation by 3-wire from NGS Point C 114</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 190	<b>Date Monumented</b> 7/13/1994	<b>Monumented By</b> USC&GS	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
-------------------------	-------------------------------------	--------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 234,277.2031		<b>Latitude</b> 36 26 3.6453120
<b>Easting (M)</b> 544,059.0230		<b>Longitude</b> 90 23 36.2272812
<b>Elevation (M)*</b> 90.599		<b>Ellipsoid Height (M):</b> 61.167
		<b>Geoid Height (M):</b> -29.432

  

<b>Northing (SFT)</b> 768,624.4572		
<b>Easting (SFT)</b> 1,784,966.9780		
<b>Elevation (SFT)*</b> 297.240		

  

<b>Convergence Angle</b> 0 56 5.5723018		
<b>Scale Factor</b> 1.000045926		
<b>Elevation Adjust. Factor</b> 0.9999857823		
<b>Combined Adjust. Factor</b> 1.0000317076		

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>				
<p>FROM THE POST OFFICE IN McDOUGAL, GO WEST ON HWY. 62 FOR 0.241 KM (0.15 MILES) TO THE STATION ON THE LEFT IN A SMALL PARK AREA. THE STATION IS 17.5 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 13.8 METERS EAST OF COOPER STREET, 6.4 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD BRONZE CAP SET IN A CONCRETE POST THAT PROJECTS THREE (3) INCHES.</p>				

  

<b>Location Reference Marks</b>						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	270	6.30	20.7		110001
MK # 2	24" OAK TREE	202	7.20	23.6		82 47 45.33934
MK # 3	24" OAK TREE	100	13.60	44.6		81 51 39.826045

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CORNPORT</p> <p>Ref Mon # 2: HOPEWELL</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: R00119 and R00125</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 2	<b>Date Monumented</b> 1/1/1978	<b>Monumented By</b> DMA	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
-----------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	647,331.0631	
<b>Easting (M)</b>	387,090.5700	
<b>Elevation (M)*</b>	116.700	
<b>Northing (SFT)</b>	2,123,785.3295	
<b>Easting (SFT)</b>	1,269,979.6451	
<b>Elevation (SFT)*</b>	382.873	

  

<b>Convergence Angle</b>	0	4	44.5663516
<b>Scale Factor</b>	1.000031529		
<b>Elevation Adjust. Factor</b>	0.9999816863		
<b>Combined Adjust. Factor</b>	1.0000132147		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FIRE HYDRANT	NW	22.90	75.1
<b>MK # 2</b>	NORTH EDGE OF ARNOLD DRIVE	N	8.60	28.2
<b>MK # 3</b>	WEST EDGE OF THE THOMAS ACTIVITIES CENTER DRIVEWAY	W	28.90	94.8

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 53 47.2269156
<b>Longitude</b>	92 8 28.4350308
<b>Ellipsoid Height (M):</b>	89.620
<b>Geoid Height (M):</b>	-27.010

Location Description
<p>THE STATION IS LOCATED IN FRONT OF THE THOMAS COMMUNITY ACTIVITIES CENTER (BUILDING 868) ON LITTLE ROCK AIR FORCE BASE NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67, 167 AND VANDENBERG BOULEVARD, GO WEST ON VANDENBERG BOULEVARD FOR 1.7 MI (2.7 KM) TO A SIDE ROAD LEFT, ARNOLD DRIVE. TURN LEFT AND GO WEST ON ARNOLD DRIVE FOR 0.5 MI (0.8 KM) TO THE WEST END OF THE THOMAS COMMUNITY ACTIVITIES CENTER AND THE STATION. THE STATION IS SET INTO THE TOP OF A 25-CM CONCRETE POST FLUSH WITH GROUND. LOCATED ABOUT 20 M (65.6 FT) WEST OF THE PARKING AREA AND ABOUT 20 M (65.6 FT) SOUTH OF A SMALL STAND OF TREES.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 292	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOAA	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137, R20091
-------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,970.9300	
<b>Easting (M)</b>	430,639.3410	
<b>Elevation (M)*</b>	55.666	
<b>Northing (SFT)</b>	1,820,767.1262	
<b>Easting (SFT)</b>	1,412,855.9046	
<b>Elevation (SFT)*</b>	182.631	

  

<b>Convergence Angle</b>	0	11	8.7888048
<b>Scale Factor</b>	0.999918597		
<b>Elevation Adjust. Factor</b>	0.9999912643		
<b>Combined Adjust. Factor</b>	0.9999098620		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. 65 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, TURN RIGHT, SOUTHWEST ON GRAVEL ROAD CROSSING A RAILROAD TRACK TO THE STATION ON THE LEFT. THE STATION IS 50.13 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 17.83 METERS SOUTHEAST OF THE CENTER OF THE GRAVEL ROAD, 16.67 METERS SOUTHWEST OF THE SOUTHWEST RAIL, 0.30 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "A 292 1984" SET FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	270	0.80	2.6
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    AHTD MON 1	
Ref Mon # 2    J 112	
Ref Mon # 3    K 124	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 292 AZ	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137, R20091
----------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	554,725.1410	
<b>Easting (M)</b>	431,092.1350	
<b>Elevation (M)*</b>	54.628	
<b>Northing (SFT)</b>	1,819,960.7334	
<b>Easting (SFT)</b>	1,414,341.4462	
<b>Elevation (SFT)*</b>	179.225	

  

<b>Convergence Angle</b>	0	11	18.6545695
<b>Scale Factor</b>	0.999918579		
<b>Elevation Adjust. Factor</b>	0.9999914272		
<b>Combined Adjust. Factor</b>	0.9999100069		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 (2.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.65 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 9.25 METERS NORTHEAST OF THE NORTHEAST RAIL AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "A292A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD MON 1						
Ref Mon # 2	J 112						
Ref Mon # 3	K 124						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 309	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> USC&GS	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> 040272, 040346, CB7201
-------------------------	------------------------------------	--------------------------------	-----------------------------	---------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	201,945.1369 0.0010
<b>Easting (M)</b>	204,977.0062 0.0010
<b>Elevation (M)*</b>	363.329
<b>Northing (SFT)</b>	662,548.3366
<b>Easting (SFT)</b>	672,495.3945
<b>Elevation (SFT)*</b>	1,192.022

  

<b>Convergence Angle</b>	-1	15	39.2599234
<b>Scale Factor</b>	0.999981913		
<b>Elevation Adjust. Factor</b>	0.9999429851		
<b>Combined Adjust. Factor</b>	0.9999248991		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	8	3.2200476
<b>Longitude</b>	94	10	0.7685400
<b>Ellipsoid Height:</b>	335.349		
<b>Grid Northing (Meters)</b>	201,945.1279		
<b>Grid Easting (Meters)</b>	204,976.9850		

  

Location Description			
<p>THE STATION IS LOCATED IN JOHNSON, AT THE INTERSECTION OF MAIN STREET AND THE ARKANSAS AND MISSOURI RAILROAD. THE STATION IS 41.0 METERS NORTH OF THE NORTHWEST CORNER OF THE OLD POST OFFICE BUILDING, 25.7 METERS NORTHEAST OF THE CENTERLINE OF THE STREET, 7.3 METERS NORTHWEST OF A UTILITY POLE, 6.4 METERS SOUTHEAST OF THE NEAR RAIL, AND .30 METERS NORTHEAST OF A WITNESS POST. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AT 1.7 METERS AND FLUSH WITH THE GROUND. NOTE: ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. NOTE: CAP HAS BEEN BROKE OFF, "ROD IS O.K."</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY (V 26)</p> <p>Ref Mon # 2    ARHR (91040001)</p> <p>Ref Mon # 3    CTA1, 720063, 720063A (E E S)</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THE OLD GEOID 12 HT. WAS -27.980m. THE ELEVATION IS BASED ON NGSs PUBLISHED ELEVATION.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 319	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> NA	<b>Route</b> NA	<b>Job Number:</b> 001873, 020462
-------------------------	------------------------	------------------------------	---------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> 3rd Order - 3 Wire Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 504,586.6142		<b>Latitude</b> 33 36 34.6361508
<b>Easting (M)</b> 395,425.4830		<b>Longitude</b> 92 2 57.4593036
<b>Elevation (M)*</b> 56.362		<b>Ellipsoid Height (M):</b> 30.676
		<b>Geoid Height (M):</b> -25.749

  

<b>Northing (SFT)</b> 1,655,464.5834		<b>Location Description</b>
<b>Easting (SFT)</b> 1,297,325.1055		
<b>Elevation (SFT)*</b> 184.915		
<b>Convergence Angle</b> 0 1 39.3223195		
<b>Scale Factor</b> 0.999945781		
<b>Elevation Adjust. Factor</b> 0.9999911550		
<b>Combined Adjust. Factor</b> 0.9999369365		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2					<b>Geodetic Azimuth</b>	
MK # 3					<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b> 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 324	<b>Date Monumented</b> 11/6/2008	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 69	<b>Job Number:</b> 100445
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,224.3579	
<b>Easting (M)</b>	536,445.0770	
<b>Elevation (M)*</b>	80.458	
<b>Northing (SFT)</b>	624,094.4142	
<b>Easting (SFT)</b>	1,759,986.8901	
<b>Elevation (SFT)*</b>	263.968	

  

<b>Convergence Angle</b>	0	52	51.8955131
<b>Scale Factor</b>	0.999967286		
<b>Elevation Adjust. Factor</b>	0.9999873737		
<b>Combined Adjust. Factor</b>	0.9999546601		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	270	1.83	6.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARPG, ARBT BLMM <b>Ref Mon # 2</b> 280012,280012A <b>Ref Mon # 3</b> 280006,280006A	<b>Comments</b> Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
---	---

  

Location Description	
To reach the station from the junction of highways 412 and 69 in downtown Paragould go south on highway 69 for 0.95 miles to the station on the right 25 feet south of the center of a bar ditch, 33.10 feet west of the center of hwy-69 and 1.0 feet east of a carsonite witness post. The station mark is a 2 1/2 inch cap stamped "A 324 2008" set in the top of a 12 inch round by 3 foot deep concrete post that is flush with the ground.	

  

<b>AZ Mark Station</b>	B 324
<b>Geodetic Azimuth</b>	177 55 58
<b>Grid Azimuth</b>	177 03 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 326	<b>Date Monumented</b> 5/6/2009	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> SPEN RI	<b>Job Number:</b> 080606
-------------------------	------------------------------------	------------------------------	-----------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	108,536.0794	0.0030	
<b>Easting (M)</b>	297,139.7837	0.0020	
<b>Elevation (M)*</b>	117.699		
<b>Northing (SFT)</b>	356,088.7872		
<b>Easting (SFT)</b>	974,866.1070		
<b>Elevation (SFT)*</b>	386.151		

  

<b>Convergence Angle</b>	0	39	29.4263065
<b>Scale Factor</b>	0.999947632		
<b>Elevation Adjust. Factor</b>	0.9999815295		
<b>Combined Adjust. Factor</b>	0.9999291625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description
<p>TO REACH FROM THE INTERSECTION OF U.S INTERSTATE 40 AND ARKANSAS STATE HIGHWAY 7 IN RUSSELLVILLE, GO NORTH ON HIGHWAY 7 FOR 0.1 MI (0.2 KM) TO ASPEN ROAD. TURN RIGHT, EAST, ON ROAD FOR 0.4 MI (0.6 KM) TO THE STATION ON THE RIGHT, NORTH OF AHTD DISTRICT SHOP.</p> <p>IT IS 35.0 M (114.8 FT) EAST OF THE CENTER OF AN ASPHALT DRIVE, 23.1 M (75.8 FT) SOUTH OF THE CENTER OF ASPEN ROAD, 32.5 M (106.6 FT) SOUTHWEST OF THE WEST END OF A CORRUGATED METAL PIPE, 28.1 M (92.2 FT) SOUTHEAST OF A FENCE CORNER, 23.0 M (75.5 FT) NORTHEAST OF THE CENTER OF A DROP INLET, 15.1 M (49.5 FT) SOUTH OF A FIBERGLASS WITNESS POST.</p>

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> A 81	<b>Date Monumented</b> 4/18/1935	<b>Monumented By</b> CGS	<b>County</b> GRANT	<b>Route</b> RONT ST	<b>Job Number:</b> 020562
------------------------	-------------------------------------	-----------------------------	------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	584,188.7487	
<b>Easting (M)</b>	341,079.9507	
<b>Elevation (M)*</b>	70.351	
<b>Northing (SFT)</b>	1,916,625.9197	
<b>Easting (SFT)</b>	1,119,026.4716	
<b>Elevation (SFT)*</b>	230.810	

  

<b>Convergence Angle</b>	0	21	30.0704753
<b>Scale Factor</b>	0.999931346		
<b>Elevation Adjust. Factor</b>	0.9999889598		
<b>Combined Adjust. Factor</b>	0.9999203065		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
AT POYEN ON THE CHICAGO ROCK ISLAND AND PACIFIC RAILWAY, 0.1 MILE NORTH OF THE STATION, 2.3 FEET WEST OF POLE 12+04, 37 FEET WEST OF THE CENTER LINE OF THE MAIN TRACK, 73 FEET SOUTH OF THE SOUTHWEST CORNER OF RAILWAY SECTION TOOL HOUSE. A STANDARD DISK, SET IN THE TOP OF A CONCRETE POST			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	AHTD HOPE CORS	51 31' 05"	12,733.24	369,859.0	
MK # 2	AHTD CAMDEN CORS	14 24' 00"	89,725.99	294,376.0	
MK # 3	AHTD LITTLE ROCK CORS	211 39' 47"	45,184.01	148,241.2	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARHP"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="ARCM"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ARLR"/>	ELEV. BASED ON NGS DATASHEET.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ADAMS 2	<b>Date Monumented</b> 1/1/1970	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> I440	<b>Job Number:</b> NA
---------------------------	------------------------------------	-----------------------------	--------------------------	----------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,811.3880	
<b>Easting (M)</b>	379,290.3930	
<b>Elevation (M)*</b>	77.842	
<b>Northing (SFT)</b>	2,063,025.3621	
<b>Easting (SFT)</b>	1,244,388.5644	
<b>Elevation (SFT)*</b>	255.387	

  

<b>Convergence Angle</b>	0	7	35.6057625
<b>Scale Factor</b>	0.999991903		
<b>Elevation Adjust. Factor</b>	0.9999877842		
<b>Combined Adjust. Factor</b>	0.9999796873		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EJ0133 ADAMS 2 RM 3	028 53	31.11	102.1
<b>MK # 2</b>	EJ1697 LITTLE ROCK ADAM FLD ASR 4 RAD	150 02	315.46	1,035.0
<b>MK # 3</b>	EJ1695 ADAMS	305 31	25.63	84.1

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><b>AZ Mark Station</b></td> <td>ADAMS 2 AZ MK</td> </tr> <tr> <td><b>Geodetic Azimuth</b></td> <td>216 07 11.4</td> </tr> <tr> <td><b>Grid Azimuth</b></td> <td>216 14 47</td> </tr> </table>	<b>AZ Mark Station</b>	ADAMS 2 AZ MK	<b>Geodetic Azimuth</b>	216 07 11.4	<b>Grid Azimuth</b>	216 14 47
<b>AZ Mark Station</b>	ADAMS 2 AZ MK						
<b>Geodetic Azimuth</b>	216 07 11.4						
<b>Grid Azimuth</b>	216 14 47						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ADS 1001	<b>Date Monumented</b>	<b>Monumented By</b> F&H	<b>County</b> CRAWFORD	<b>Route</b> DRNHILI	<b>Job Number:</b> 040373,040748
----------------------------	------------------------	-----------------------------	---------------------------	-------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	120,413.2363	0.0010	
<b>Easting (M)</b>	197,225.5072	0.0010	
<b>Elevation (M)*</b>	118.874		
<b>Northing (SFT)</b>	395,055.7594		
<b>Easting (SFT)</b>	647,064.0182		
<b>Elevation (SFT)*</b>	390.005		

  

<b>Convergence Angle</b>	-1	17	56.6001722
<b>Scale Factor</b>	0.999941191		
<b>Elevation Adjust. Factor</b>	0.9999813452		
<b>Combined Adjust. Factor</b>	0.9999225373		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VALVE	130	3.35	11.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2: ARHR	
Ref Mon # 3: OKHV	

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 2.25 MILES TO THE MARK ON THE LEFT, EAST 27 FEET OF THE CENTERLINE OF THE ROAD, 40 FOOT NORTH OF THE CENTERLINE OF A FIELD ROAD AND WEST 5.5 FEET OF A WITNESS POST. THE MARK IS 1 INCH CAP SET IN A 7 INCH ROUND CONCRETE CYCLNDER STAMPED "JOB#040373, ADS 1001, 1276" LEVEL WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AGRONOMY	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> ARN COOPER	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> 4620_5,004822,040489,012069
----------------------------	------------------------------------	------------------------------------	-----------------------------	---------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	197,817.6260
<b>Easting (M)</b>	204,191.2030
<b>Elevation (M)*</b>	394.547
<b>Northing (SFT)</b>	649,006.6613
<b>Easting (SFT)</b>	669,917.3052
<b>Elevation (SFT)*</b>	1,294.441

  

<b>Convergence Angle</b>	-1	15	55.4225680
<b>Scale Factor</b>	0.999975875		
<b>Elevation Adjust. Factor</b>	0.9999380866		
<b>Combined Adjust. Factor</b>	0.9999139631		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 0.50 MILES TO CASSATT STREET ON THE LEFT, TURN LEFT (EAST) ON CASSATT STREET AND GO EAST FOR 0.15 MILES TO A GRAVEL ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON THE GRAVEL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.10 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS AN ARKANSAS HARN DISK SET IN A 13 - INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. THE DISK IS STAMPED AGRONOMY. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVES FROM NGS BENCH L 310 PID # GG0905 RAN BY CREW S5102.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST EDGE OF THE GRAVEL ROAD	W	3.70	12.1
<b>MK # 2</b>	IRRIGATION VALVE IN METAL BOX	SW 27	5.30	17.4
<b>MK # 3</b>	A 3.5 FOOT (1.1 M) TALL METAL GUARD POST	SW	8.50	27.9

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> ENES <b>Ref Mon # 3</b> V 26	3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified with 3-wire levels by crew S5101 in October 07 from 1st Order NGS marks Q 310, J 27, K 310, & A 27.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD FS 2	<b>Date Monumented</b> 6/14/1999	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> NA
-----------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	114,834.5921	
<b>Easting (M)</b>	179,855.3560	
<b>Elevation (M)*</b>	132.900	
<b>Northing (SFT)</b>	376,753.1576	
<b>Easting (SFT)</b>	590,075.4471	
<b>Elevation (SFT)*</b>	436.023	

  

<b>Convergence Angle</b>	-1	24	33.8894163
<b>Scale Factor</b>	0.999944676		
<b>Elevation Adjust. Factor</b>	0.9999791441		
<b>Combined Adjust. Factor</b>	0.9999238212		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN FORT SMITH, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 4 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, 4019 TOWNSON AVENUE, PO BOX 1424, FORT SMITH AR 72902-1424, PHONE 501-646-5501, THE DISTRICT ENGINEER IS HAROLD BEAVERS. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 530, U.S. HIGHWAYS 71 SOUTH AND BUSINESS ROUTE 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO NORTH ON BUSINESS ROUTE 71 (TOWNSON AVE.) FOR 4.67 KM (2.90 MI) TO THE ARHD DISTRICT 4 HEADQUARTERS AND THE STATION ON THE RIGHT, NEAR THE WEST EDGE OF THE WESTERNMOST PARKING LOT IN FRONT OF THE DISTRICT 4 HEADQUARTERS. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 38.5 M (126.3 FT) NORTH OF THE CENTER OF THE ENTRANCE ROAD, 35.3 M (115.8 FT) EAST OF THE CENTER OF BUSINESS ROUTE 71 (TOWNSON AVENUE), 24.8 M (81.4 FT) WEST-NORTHWEST OF A FLAGPOLE, 14.5 M (47.6 FT) NORTHEAST OF A GAS VALVE AND 1.2 M (3.9 FT) WEST OF THE WEST EDGE OF PAVED PARKING LOT. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FLAG POLE	ST-NORTHW		24.80	81.4
MK # 2	GAS VALVE	NORTHEAST		14.50	47.6
MK # 3	WEST EDGE PARK (9TH PARKING SPACE N ORTH OF ENTR)	WEST		1.20	3.9

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD HAR 1	<b>Date Monumented</b>	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> Mobile LiDAR-CLS,090371
------------------------------	------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,833.8730	
<b>Easting (M)</b>	307,331.3940	
<b>Elevation (M)*</b>	356.899	
<b>Northing (SFT)</b>	675,306.6317	
<b>Easting (SFT)</b>	1,008,303.0818	
<b>Elevation (SFT)*</b>	1,170.927	

  

<b>Convergence Angle</b>	0	35	58.1259214
<b>Scale Factor</b>	0.999990668		
<b>Elevation Adjust. Factor</b>	0.9999439940		
<b>Combined Adjust. Factor</b>	0.9999346625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	S	37.90	124.3
MK # 2	MANHOLE	W	32.20	105.6
MK # 3	THE EXTENDED CENTER OF PAVED ROAD	E	23.40	76.8

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.</td> </tr> </table>	Comments	3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.
Comments			
3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.			

  

Location Description
THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE. PASS THROUGH THE GATE, CONTINUE SOUTHWESTERLY FOLLOWING THE NORTH EDGE OF A PAVED AREA FOR 0.16 KM (0.10 MI) TO A BRICK BUILDING ON THE LEFT AND A LARGE OAK TREE ON THE RIGHT. CONTINUE FOLLOWING THE EDGE OF THE PAVED AREA FOR ABOUT 20 M (65.6 FT) TO A PAVED ROAD. GO SOUTHERLY ON A PAVED ROAD UP A HILL FOR ABOUT 30 M (98.4 FT) TO ANOTHER PAVED AREA AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 22.60 M (74.15 FT) SOUTHEAST OF THE BACK OF CURB AND 2.70 M (8.86 FT) NORTHEAST OF THE

  

<b>AZ Mark Station</b>	AHTD HAR 2
<b>Geodetic Azimuth</b>	017 55
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD HAR 2	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> Mobile LiDAR-CLS,090371
------------------------------	------------------------------------	------------------------------	------------------------	--------------------	---

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	206,098.6400	
<b>Easting (M)</b>	307,420.0960	
<b>Elevation (M)*</b>	351.257	
<b>Northing (SFT)</b>	676,175.2881	
<b>Easting (SFT)</b>	1,008,594.0983	
<b>Elevation (SFT)*</b>	1,152.415	

  

<b>Convergence Angle</b>	0	35	56.1247740
<b>Scale Factor</b>	0.999991106		
<b>Elevation Adjust. Factor</b>	0.9999448794		
<b>Combined Adjust. Factor</b>	0.9999359859		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ENTRANCE ROAD TO A PAVED PARKING LOT ON THE RIGHT. TURN RIGHT, THEN LEFT AND CONTINUE SOUTHWEST ON THE PAVED ROAD FOR 0.04 KM (0.00 MI) TO THE PARKING LOT AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHWEST END OF A CONCRETE HEADWALL	S	34.60	113.5	
MK # 2	CENTER OF PAVED ENTRANCE ROAD TO THE PARKING LOT	NW	25.00	82.0	
MK # 3	BACK OF CURB	NE	2.80	9.2	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
AHTD HOPE 1	1/1/1997	AHTD	HEMPSTEAD	29	3720_7

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,363.4270	
<b>Easting (M)</b>	251,615.1614	
<b>Elevation (M)*</b>	108.100	
<b>Northing (SFT)</b>	1,690,821.5101	
<b>Easting (SFT)</b>	825,507.4087	
<b>Elevation (SFT)*</b>	354.658	

  

<b>Convergence Angle</b>	0	53	45.1410667
<b>Scale Factor</b>	0.999935774		
<b>Elevation Adjust. Factor</b>	0.9999830359		
<b>Combined Adjust. Factor</b>	0.9999188110		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAVD 88		
<b>Latitude</b>	33	41	46.8192120
<b>Longitude</b>	93	36	2.3641812
<b>Ellipsoid Height:</b>	81.100		
<b>Grid Northing (Meters)</b>	515,363.4042		
<b>Grid Easting (Meters)</b>	251,615.1380		

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 0.60 KM (0.35 MI) NORTH OF HOPE, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 3. OWNERSHIP--THE STATE OF ARKANSAS, PO BOX 490, HOPE AR 71801-0490, PHONE 870-777-3457, THE DISTRICT ENGINEER IS WILLIAM TYLER. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 30 AND STATE HIGHWAY 29 (EXIT 31) LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE ROAD TO THE ARHD DISTRICT 3 ON THE RIGHT. TURN RIGHT, EASTERLY ON A PAVED ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH, PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.00 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WALL OF THE RESIDENT ENGINEER BRICK BUILDING	N	10.59	34.7
MK # 2	SOUTH EDGE OF A CONCRETE SIDEWALK	S	4.38	14.4
MK # 3	BRICK FENCE	E	3.39	11.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD HOPE 2	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030078
-------------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,514.5232	
<b>Easting (M)</b>	251,417.3330	
<b>Elevation (M)*</b>	107.000	
<b>Northing (SFT)</b>	1,691,317.2315	
<b>Easting (SFT)</b>	824,858.3667	
<b>Elevation (SFT)*</b>	351.049	

  

<b>Convergence Angle</b>	0	53	49.4915733
<b>Scale Factor</b>	0.999935638		
<b>Elevation Adjust. Factor</b>	0.9999832085		
<b>Combined Adjust. Factor</b>	0.9999188476		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 0.89 KM (0.55 MI) NORTH OF HOPE, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 3. OWNERSHIP--STATE OF ARKANSAS, PO BOX 490, HOPE AR 71801-0490, PHONE IS 870-777-3457, DISTRICT ENGINEER IS WILLIAM TYLER. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 30 AND STATE HIGHWAY 29 (EXIT 31) LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.89 KM (0.55 MI) TO THE JUNCTION OF COUNTY ROAD 221 (COUNTY ROAD 221 IS A GRAVEL ROAD TO BE PAVED SOON) AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 24.17 M (79.30 FT) EAST OF A UTILITY POLE, 13.32 M (43.70 FT) EAST-SOUTHEAST OF A UTILITY POLE NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	CENTER OF STATE HIGHWAY 29	NE	27.34	89.7	
<b>MK # 2</b>	CENTER OF COUNTY ROAD 221	S	11.58	38.0	
<b>MK # 3</b>	A FIBERGLASS WITNESS POST	SW	1.00	3.3	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD LR 1	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 388	<b>Job Number:</b> OFFICE
-----------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	622,556.7633
<b>Easting (M)</b>	364,939.9302
<b>Elevation (M)*</b>	92.803
<b>Northing (SFT)</b>	2,042,504.9809
<b>Easting (SFT)</b>	1,197,307.0877
<b>Elevation (SFT)*</b>	304.471

  

<b>Convergence Angle</b>	0 12 50.7955313
<b>Scale Factor</b>	0.999980382
<b>Elevation Adjust. Factor</b>	0.9999854364
<b>Combined Adjust. Factor</b>	0.9999658187

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	40	21.4440276
<b>Longitude</b>	92	22	57.1826928
<b>Ellipsoid Height:</b>	66.320		
<b>Grid Northing (Meters)</b>	622,556.7609		
<b>Grid Easting (Meters)</b>	364,939.8940		

  

Location Description			
<p>THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICE AND DISTRICT 6. OWNERSHIP--STATE OF ARKANSAS, PO BOX 190296, LITTLE ROCK AR 72219-0296, PHONE 501-569-2173, DISTRICT ENGINEER IS LEONARD HALL. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) AND INTERSTATE 30 (EXIT 130) LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, GO NORTH ON STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) FOR 0.08 KM (0.05 MI) TO A T-JUNCTION. TURN RIGHT, EAST ON MABELVALE PIKE FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF MABELVALE PIKE ON THE LEFT. TURN LEFT, NORTH ON MABELVALE PIKE FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT TO THE ARHD DISTRICT 6. TURN LEFT, WEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT, IN A PAVED PARKING LOT, UNDER A 7.62 M (25.00 FT) TOWER. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 32.94 M (108.07 FT) EAST OF THE BACK OF CURB, 22.25 M (73.00 FT) SOUTH OF THE BACK OF CURB, 2.95 M (9.68 FT) WEST OF THE BACK OF CURB AND 2.50 M (8.20 FT)</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WALL OF A BRICK BUILDING	N	9.25	30.3
MK # 2	CENTER OF A PAVED ROAD	S	32.25	105.8
MK # 3				

  

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

  

Comments
<p>BASED ON 3 WIRE LEVEL FROM NGS POINT ET 11                  *****ORIG.                  GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m                  *****UPDATE                  D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION                  *****OLD                  ELEV. 92.8373m BASED ON LEVELS BY AHTD FROM BM ET 11, NEW</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD LR 2	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 388	<b>Job Number:</b> OFFICE,060657,061332
-----------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	622,604.7256
<b>Easting (M)</b>	364,776.0419
<b>Elevation (M)*</b>	88.507
<b>Northing (SFT)</b>	2,042,662.3372
<b>Easting (SFT)</b>	1,196,769.3975
<b>Elevation (SFT)*</b>	290.377

  

<b>Convergence Angle</b>	0 12 54.4025408
<b>Scale Factor</b>	0.999980465
<b>Elevation Adjust. Factor</b>	0.9999861106
<b>Combined Adjust. Factor</b>	0.9999665758

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	40	22.9805364
<b>Longitude</b>	92	23	3.6270924
<b>Ellipsoid Height:</b>	62.010		
<b>Grid Northing (Meters)</b>	622,604.7219		
<b>Grid Easting (Meters)</b>	364,776.0120		

  

Location Description				
<p>THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICE AND DISTRICT 6. OWNERSHIP--STATE OF ARKANSAS, PO BOX 190296, LITTLE ROCK AR 72219-0296, PHONE 501-569-2173, DISTRICT ENGINEER IS LEONARD HALL. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) AND INTERSTATE 30 (EXIT 130) LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, GO NORTH ON STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) FOR 0.08 KM (0.05 MI) TO A T-JUNCTION. TURN RIGHT, EAST ON MABELVALE PIKE FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF MABELVALE PIKE ON THE LEFT. TURN LEFT, NORTH ON MABELVALE PIKE FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF A PAVED ROAD LEFT LEADING TO THE ARHD DISTRICT 6. TURN LEFT, WEST ON THE PAVED ROAD FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 1.00 M (3.28 FT) SOUTH OF A FIBERGLASS WITNESS POST.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE	E	27.50	90.2
MK # 2	CENTER OF A PAVED ROAD	N	10.10	33.1
MK # 3	UTILITY POLE	SE	37.16	121.9

  

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

  

Comments
<p>ORIG. GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m          *****UPDATE          D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION          *****PREVIOUS          S ELEV. OF 88.500m WAS UPDATED AND BASED ON NGS PUBLISHED          ELEV. OF 88.507m IN MAY 2008 FROM DIFFERENTIAL LEVELING</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD MON 1	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> DREW	<b>Route</b> 425	<b>Job Number:</b> 020286
------------------------------	------------------------------------	------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	509,987.0722	
<b>Easting (M)</b>	418,318.8360	
<b>Elevation (M)*</b>	87.242	
<b>Northing (SFT)</b>	1,673,182.5860	
<b>Easting (SFT)</b>	1,372,434.3811	
<b>Elevation (SFT)*</b>	286.226	

  

<b>Convergence Angle</b>	0	6	37.9659596
<b>Scale Factor</b>	0.999939899		
<b>Elevation Adjust. Factor</b>	0.9999863091		
<b>Combined Adjust. Factor</b>	0.9999262089		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6275, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4 LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE NORTH ENTRANCE TO THE ARHD MAINTENANCE AREA HEADQUARTERS ON THE RIGHT. TURN RIGHT, EAST THROUGH A PARKING LOT FOR ABOUT 34.0 M (111.5 FT) TO A GATE IN A CHAIN LINK FENCE. PASS THROUGH THE GATE FOR ABOUT 6.0 M (19.7 FT) TO THE STATION ON THE LEFT, UNDER A 6.10 M (20.01 FT) TOWER. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 41.48 M (136.09 FT) EAST OF THE CENTER OF HIGHWAY 425NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CHAIN LINK FENCE	E	2.06	6.8	
MK # 2	SOUTH BRICK WALL OF THE RESIDENT EN GINEER BUILDING	S	1.94	6.4	
MK # 3	CENTER OF THE ENTRANCE TO AREA YAR	N	7.20	23.6	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
AHTD MON 2	1/1/1997	AHTD	DREW	425	020286

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	509,961.3301	
<b>Easting (M)</b>	418,289.5640	
<b>Elevation (M)*</b>	87.891	
<b>Northing (SFT)</b>	1,673,098.1305	
<b>Easting (SFT)</b>	1,372,338.3446	
<b>Elevation (SFT)*</b>	288.356	

  

<b>Convergence Angle</b>	0	6	37.3289673
<b>Scale Factor</b>	0.999939926		
<b>Elevation Adjust. Factor</b>	0.9999862072		
<b>Combined Adjust. Factor</b>	0.9999261341		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6276, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4, LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE ARHD MAINTENANCE AREA HEADQUARTERS AND THE STATION ON THE RIGHT. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 4.88 M (16.01 FT) WEST OF THE BACK OF CURB, 1.17 M (3.84 FT) EAST OF THE BACK OF CURB AND 1.00 M (3.28 FT) WEST OF A FIBERGLASS WITNESS POST. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF SOUTH ENTRANCE TO MAINTENANCE AREA HQ	N	15.50	50.9
MK # 2	THE CENTER OF HIGHWAY 425	E	10.25	33.6
MK # 3	CENTER OF N ENTRANCE TO THE MAINTENANCE AREA HQ	S	16.00	52.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD PAR 1	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100520, 100496
------------------------------	------------------------------------	------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,404.5890	
<b>Easting (M)</b>	533,397.7140	
<b>Elevation (M)*</b>	89.794	
<b>Northing (SFT)</b>	631,247.3891	
<b>Easting (SFT)</b>	1,749,989.0000	
<b>Elevation (SFT)*</b>	294.599	

  

<b>Convergence Angle</b>	0	51	41.8273491
<b>Scale Factor</b>	0.999970119		
<b>Elevation Adjust. Factor</b>	0.9999859086		
<b>Combined Adjust. Factor</b>	0.9999560280		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CORNER POST IN A CHAIN LINK FENCE	E	8.23	27.0
<b>MK # 2</b>	BACK OF CURB	W	5.51	18.1
<b>MK # 3</b>	BACK OF CURB	S	3.18	10.4

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	Elevation based on 3-wire from NGS Pt. K 251 For more Benchmarks see 100496
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> AHTD PAR 2	<b>Date Monumented</b> 1/1/1997	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100564,100445
------------------------------	------------------------------------	------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,520.6919	
<b>Easting (M)</b>	533,455.2650	
<b>Elevation (M)*</b>	89.830	
<b>Northing (SFT)</b>	631,628.3033	
<b>Easting (SFT)</b>	1,750,177.8153	
<b>Elevation (SFT)*</b>	294.718	

  

<b>Convergence Angle</b>	0	51	43.2059654
<b>Scale Factor</b>	0.999970269		
<b>Elevation Adjust. Factor</b>	0.9999859029		
<b>Combined Adjust. Factor</b>	0.9999561723		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 3 34.5022956
<b>Longitude</b>	90 31 7.1066928
<b>Ellipsoid Height (M):</b>	61.850
<b>Geoid Height (M):</b>	-28.107

  

Location Description
<p>THE STATION IS LOCATED IN PARAGOULD, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10. OWNERSHIP--STATE OF ARKANSAS, PO BOX 98, PARAGOULD AR 72451-0098, PHONE 870-239-9511, DISTRICT ENGINEER IS JOE BARNETT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON HIGHWAY 412 FOR 1.61 KM (1.00 MI) TO STATION ON THE LEFT, SET IN FRONT OF ARHD DISTRICT 10. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	CENTER OF HIGHWAY 412	S	17.80	58.4	
<b>MK # 2</b>	SOUTH END OF THE AHTD SIGN	W	5.06	16.6	
<b>MK # 3</b>	BACK OF CURB	N	5.06	16.6	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD PAR1	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.
<b>Ref Mon # 2</b> BUTLER	
<b>Ref Mon # 3</b> 480016 ( Brinkley shop )	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ALLEN	<b>Date Monumented</b> 3/6/2004	<b>Monumented By</b> AHTD	<b>County</b> OUACHITA	<b>Route</b> CR 577	<b>Job Number:</b> NA
-------------------------	------------------------------------	------------------------------	---------------------------	------------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	484,398.2382	
<b>Easting (M)</b>	321,308.4950	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,589,229.8865	
<b>Easting (SFT)</b>	1,054,159.6207	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	28	24.8950947
<b>Scale Factor</b>	0.999974699		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 376 AND STATE HIGHWAY 7, SOUTH OF CAMDEN, GO SOUTH ON HIGHWAY 7 FOR 2.5 MILES TO STATE HIGHWAY 376 AND TURN RIGHT (SOUTH), AND GO 3.4 MILES TO ELLIOTT AND OUACHITA COUNTY ROAD 53, TURN RIGHT (WEST) ON COUNTY ROAD 53 AND GO 1.4 MILES TO A CROSS ROAD AND TURN LEFT (SOUTH) ON COUNTY ROAD 51 AND GO 1.5 MILES TO COUNTY ROAD 577 AND TURN LEFT (EAST) AND GO 0.65 MILES TO A GATE, PASS THRU THE GATE AND FOLLOW THE FIELD ROAD FOR 0.1 MILES PASSING A GARDEN ON THE RIGHT AND PAST A HOUSE ON THE LEFT TO THE STATION MARK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "ALLEN 2004" ON TOP OF A 1.22 METER IRON ROD SET IN CONCRETE FLUSH WITH THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF METAL BUILDING	0	13.30	43.6
MK # 2	SOUTHEAST CORNER OF METAL BUILDING	19	13.05	42.8
MK # 3	2" RED MAPLE TREE	350	11.80	38.7

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: HOPE, TEXARKANA Ref Mon # 2: IULM Ref Mon # 3: MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
LMYPORT AZ M	1/1/1990	NGS	ARKANSAS	N/A	020329

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	594,110.0359	
<b>Easting (M)</b>	449,028.7770	
<b>Elevation (M)*</b>	63.260	
<b>Northing (SFT)</b>	1,949,176.0094	
<b>Easting (SFT)</b>	1,473,188.5792	
<b>Elevation (SFT)*</b>	207.546	

  

<b>Convergence Angle</b>	0	17	54.6344433
<b>Scale Factor</b>	0.999940535		
<b>Elevation Adjust. Factor</b>	0.9999900725		
<b>Combined Adjust. Factor</b>	0.9999306081		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 17 KM (10.55 MI) NORTHWEST OF DEWITT, 12 KM (7.45 MI) SOUTHEAST OF STUTTGART, 5 KM (3.10 MI) WEST-NORTHWEST OF ALMYRA, AT THE ALMYRA MUNICIPAL AIRPORT, IN THE NORTHWEST AREA OF THE AIRFIELD, BETWEEN THE WINDSOCK AND A TAXIWAY LEADING TO RUNWAY END 17. OWNERSHIP--CITY OF ALMYRA, PO BOX 104, ALMYRA AR 72160. AIRPORT MANAGERS ARE MARK HARTZ AND SCOTT GEOTZ, PO BOX 104, ALMYRA AR 72160, PHONE 501-992-3386 OR 992-3333. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 130 AND SPUR 130 (WEST MAIN) ON THE WEST SIDE OF ALMYRA, GO NORTH ON HIGHWAY 130 FOR 1.03 KM (0.65 MI) TO COUNTY HIGHWAY 980 (ALMYRA AIRPORT ROAD). TURN LEFT, WEST ON THE PAVED ROAD FOR 4.43 KM (2.75 MI) TO THE PAVED AIRPORT ENTRANCE ON THE LEFT. TURN LEFT, SOUTH ON THE ROAD PASSING THE AIRPORT OFFICE FOR 0.08 KM (0.05 MI) TO THE SOUTH SIDE OF THE APRON AND THE Y-JUNCTION OF TWO TAXIS. TURN RIGHT, SOUTHWEST, THEN NORTHWEST ALONG THE TAXI FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	THE EAST 1 OF 3 THRESHOLD LIGHTS FOR RUNWAY END 17	E-SE	64.10	210.3	
MK # 2	THE CENTER OF RUNWAY 10-28	N-NE	40.50	132.9	
MK # 3	THE NORTHEAST EDGE OF THE TAXIWAY	N-NE	10.10	33.1	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
1970 STA A3 H	1/1/1970	CGS	GARLAND	70	NA

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	601,934.9328	
<b>Easting (M)</b>	299,918.1030	
<b>Elevation (M)*</b>	162.190	
<b>Northing (SFT)</b>	1,974,848.1920	
<b>Easting (SFT)</b>	983,981.3096	
<b>Elevation (SFT)*</b>	532.118	

  

<b>Convergence Angle</b>	0	36	35.4018381
<b>Scale Factor</b>	0.999948967		
<b>Elevation Adjust. Factor</b>	0.9999745477		
<b>Combined Adjust. Factor</b>	0.9999235160		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF HOT SPRINGS, AT THE HOT SPRINGS MEMORIAL FIELD AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, ALONG THE SOUTHEAST SIDE OF AND ABOUT IN LINE WITH RUNWAY END 23. OWNERSHIP--CITY OF HOT SPRINGS, 525 AIRPORT ROAD, HOT SPRINGS NATIONAL PARK AR 71913. AIRPORT MANAGER IS GEORGE DOWNIE, PHONE 501-624-3306. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 70 AND 270B ON THE SOUTHWEST SIDE OF HOT SPRINGS, GO SOUTHWEST ON HIGHWAY 70 FOR 1.29 KM (0.80 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A GATE ON THE RIGHT AT THE APRON JUST EAST OF THE TERMINAL. TURN RIGHT, SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON, PASSING TO THE RIGHT OF THE AIRPORT OFFICE FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXI FOR RUNWAY 5-23. TURN LEFT, NORTHEAST ALONG THE TAXI FOR 0.39 KM (0.25 MI) TO THE JUNCTION OF RUNWAY END 23 AND THE STATION AHEAD. THE STATION IS SET INSIDE A 12 CM DIAMETER CONCRETE WELL CASING WITH A 50 CM ROUND FOUNDATION SET FLUSH WITH THE GROUND. THE DISK IS RECESSED 30 CM BELOW THE GROUND</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	THE FIRST RUNWAY LIGHT FROM THE RUNWAY END	E-NE	52.10	170.9
MK # 2	THE SOUTHEAST EDGE OF THE RUNWAY	SE	17.00	55.8
MK # 3	THE CENTER OF THE REIL	W-NW	8.20	26.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> EPT OF CORREC	<b>Date Monumented</b> 10/21/1996	<b>Monumented By</b> 	<b>County</b> PULASKI	<b>Route</b> 386	<b>Job Number:</b> 6905_5
---------------------------------	--------------------------------------	--------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	614,650.4003				
<b>Easting (M)</b>	381,650.7832				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,016,565.5217				
<b>Easting (SFT)</b>	1,252,132.6112				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	6	43.0691693
<b>Scale Factor</b>	0.999967386		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ADAMS 2 Ref Mon # 2    R 107 Ref Mon # 3    SALIPORT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    36    6.4062072
<b>Longitude</b>	92    12    0.1641528
<b>Ellipsoid Height (M):</b>	
<b>Geoid Height (M):</b>	

Location Description
A 3/4" X 4' LONG REBAR WAS SET WITH AN ALUMINUM CAPP ON TOP FLUSH WITH THE GROUND BY A 4"X4" CONCRETE MONUMENT PROJECTING 2 FT ABOVE THE GROUND IN POOR CONDITION NEAR CENTER OF SECTION 28 T-1-S, R-11-W

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ARCO PN-1	<b>Date Monumented</b> 7/10/2002	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 165	<b>Job Number:</b> 020329, 2735_3
-----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	601,293.2469	
<b>Easting (M)</b>	442,172.1420	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,972,742.9275	
<b>Easting (SFT)</b>	1,450,693.1025	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	15	25.0559610
<b>Scale Factor</b>	0.999948717		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EDGE "RICELAND" SIGN	301	24.99	82.0
MK # 2	CENTER OF MANHOLE	0	24.08	79.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 J 112	
Ref Mon # 3 LROC	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 28 50.4309180
<b>Longitude</b>	91 32 27.2014404
<b>Ellipsoid Height (M):</b>	38.721
<b>Geoid Height (M):</b>	-26.410

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.10 MILES TO THE STATION ON THE LEFT. 32.50FT. WEST OF THE CENTER OF HWY-165 AND 5.20FT. WEST OF THE BACK OF THE CURB.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ARCO PN-2	<b>Date Monumented</b> 7/10/2002	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 165	<b>Job Number:</b> 020329, 2735_3
-----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	601,600.2578
<b>Easting (M)</b>	442,197.4440
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	1,973,750.1791
<b>Easting (SFT)</b>	1,450,776.1142
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	15	25.6411808
<b>Scale Factor</b>	0.999949094		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	NONE		
<b>Elevation Datum:</b>	NONE		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	29	0.3909372
<b>Longitude</b>	91	32	26.1558276
<b>Ellipsoid Height (M):</b>	38.804		
<b>Geoid Height (M):</b>	-26.415		

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.30 MILES TO THE STATION ON THE RIGHT. 35.0 FT. EAST OF THE CENTER OF HWY-165 AND 21.0 FT. NORTH OF A PAVED DRIVEWAY.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	169	16.55	54.3
MK # 2	METAL SIGN POST	008	15.70	51.5
MK # 3				

  

<b>AZ Mark Station</b>	ARCO PN-3
<b>Geodetic Azimuth</b>	1 33 49
<b>Grid Azimuth</b>	1 18 23

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 J 112	
Ref Mon # 3 LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ARCO PN-3	<b>Date Monumented</b> 7/10/2002	<b>Monumented By</b> AHTD	<b>County</b> ARKANSAS	<b>Route</b> 165	<b>Job Number:</b> 2735_3
-----------------------------	-------------------------------------	------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	601,942.4759		
<b>Easting (M)</b>	442,205.2480		
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,974,872.9397		
<b>Easting (SFT)</b>	1,450,801.7178		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	15	25.8460625
<b>Scale Factor</b>	0.999949517		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WATER METER	001	7.83	25.7
<b>MK # 2</b>	CENTER OF STORM DRAIN MANHOLE	194	13.87	45.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="ALMYPORT"/>	
<b>Ref Mon # 2</b> <input type="text" value="J 112"/>	
<b>Ref Mon # 3</b> <input type="text" value="LROC"/>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 29 11.4961020
<b>Longitude</b>	91 32 25.7897652
<b>Ellipsoid Height (M):</b>	38.966
<b>Geoid Height (M):</b>	-26.420

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.50 MILES TO THE STATION ON THE RIGHT. 60 FEET SOUTH OF THE CENTER OF A CONCRETE DRIVEWAY AND 42 FEET EAST OF THE CENTER OF HWY-165.</p>

<b>AZ Mark Station</b>	ARCO PN-2
<b>Geodetic Azimuth</b>	181 33 49
<b>Grid Azimuth</b>	181 18 23

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ARKANA RESET	1/1/1965	NGS	BAXTER	5	009813,012231

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	217,009.9618	0.0030			
<b>Easting (M)</b>	371,121.0966	0.0030			
<b>Elevation (M)*</b>	297.113				
<b>Northing (SFT)</b>	711,973.5163				
<b>Easting (SFT)</b>	1,217,586.4644				
<b>Elevation (SFT)*</b>	974.777				

  

<b>Convergence Angle</b>	0	11	13.4223666
<b>Scale Factor</b>	1.000011462		
<b>Elevation Adjust. Factor</b>	0.9999533755		
<b>Combined Adjust. Factor</b>	0.9999648370		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	17	20.0683752
<b>Longitude</b>	92	19	17.2842636
<b>Ellipsoid Height:</b>	268.760		
<b>Grid Northing (Meters)</b>	217,009.9410		
<b>Grid Easting (Meters)</b>	371,121.0820		

  

Location Description			
<p>RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990  STATION MARK WAS RECOVERED IN GOOD CONDITION.  OTHER MARKS NOT SEARCHED FOR. STATION IS LOCATED  ABOUT 15.6 KM (9.7 MI) EAST OF GASSVILLE, 9.3 KM (5.8 MI)  NORTHWEST OF NORFOLK, AND 8.0 KM (5.0 MI) SOUTHEAST  OF MOUNTAIN HOME. OWNERSHIP--BAXTER COUNTY. TO  REACH THE STATION FROM THE COUNTY COURTHOUSE IN  MOUNTAIN HOME. GO SOUTH ON U.S.HIGHWAY 62 FOR 0.11  KM (0.07 MI) TO THE JUNCTION OF STATE HIGHWAY 5.  CONTINUE SOUTH AND SOUTHEASTERLY ON STATE  HIGHWAY 5 FOR 7.97 KM (4.95 MI) TO A PAVED ROAD ON THE  RIGHT. TURN RIGHT AND GO SOUTHEAST ON COUNTY ROAD  62 FOR 0.71 KM (0.44 MI) TO THE STATION ON THE LEFT. JUST  BEFORE REACHING A GRAVELED ROAD ON THE RIGHT WITH  A PIPE GATE. STATION IS A STANDARD CGS STATION MARK  DISK STAMPED---ARKANA 1953 1965---. SET IN THE TOP OF A  30-CM ROUND CONCRETE POST THAT IS FLUSH WITH THE  GROUND. IT IS 15.9 KM (9.9 MI) NORTHEAST OF THE  EXTENDED CENTER OF A GRAVELED ROAD WITH A PIPE  GATE, 7.7 M (25.3 FT) EAST OF THE CENTER OF A GRAVELED  ROAD, AND 0.5 M (1.6 FT) SOUTHEAST OF A METAL WITNESS  POST. R.M. NO. 3 IS NORTHEAST OF THE STATION AND 46  FEET NORTH OF THE CENTER OF THE DRIVEWAY. THE MARK</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	ARKANA RM 3		57 28 00	10.25	33.6
MK # 2	ARKANA RM 1		58 59 00	7.03	23.1
MK # 3	ARKANA RM2		171 51 00	7.10	23.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 &amp; 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ARP 2	<b>Date Monumented</b> 1/1/1970	<b>Monumented By</b> CGS	<b>County</b> BOONE	<b>Route</b> 980	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,524.0180	
<b>Easting (M)</b>	296,329.7820	
<b>Elevation (M)*</b>	412.780	
<b>Northing (SFT)</b>	703,817.5491	
<b>Easting (SFT)</b>	972,208.6264	
<b>Elevation (SFT)*</b>	1,354.262	

  

<b>Convergence Angle</b>	0	40	16.6874161
<b>Scale Factor</b>	1.000005684		
<b>Elevation Adjust. Factor</b>	0.9999352256		
<b>Combined Adjust. Factor</b>	0.9999409092		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE NORTHWEST SIDE OF HARRISON, AT THE BOONE COUNTY AIRPORT, AT THE TOP OF A RISE NEAR THE CENTER OF THE AIRFIELD, AND ACROSS THE PARALLEL TAXIWAY FROM THE WINDSOCK. OWNERSHIP--CITY OF HARRISON, 2424 AIRPORT ROAD, HARRISON AR 72601, AIRPORT MANAGER IS JUDY MCCUTCHEON, PHONE 501-741-6954. FBO IS RICH BENSON, PHONE 501-741-4510. CONTACT ONE OF THEM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH FROM THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 65, ABOUT 10 KM (6.20 MI) NORTHWEST OF HARRISON, GO SOUTHEAST ON HIGHWAYS 62 AND 65 FOR 4.03 KM (2.50 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHERLY ON COUNTY ROAD 980 FOR 0.74 KM (0.45 MI) TO THE ENTRANCE ROAD TO THE TERMINAL ON THE RIGHT. CONTINUE SOUTH ON COUNTY ROAD 980 FOR 0.12 KM (0.05 MI) TO A PAVED ROAD RIGHT LEADING TO CROWN AVIATION. TURN RIGHT, WEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A GATE ON THE LEFT BETWEEN TWO HANGARS. TURN LEFT, SOUTH, PASSING THROUGH THE GATE FOR 0.08 KM (0.05 MI) TO THE APRON. TURN RIGHT, NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXIWAY. TURN LEFT, SOUTH ALONG THE TAXIWAY FOR</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	EAST EDGE OF THE RUNWAY (SLOPE MEASUREMENT)	E	76.10	249.7
<b>MK # 2</b>	A TAXIWAY LIGHT	SW	18.20	59.7
<b>MK # 3</b>	WEST EDGE OF THE TAXIWAY	W	12.10	39.7

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> B 307	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NOAA	<b>County</b> Miller	<b>Route</b> 82	<b>Job Number:</b> 030349
-------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	486,472.6432	
<b>Easting (M)</b>	215,122.7410	
<b>Elevation (M)*</b>	113.806	
<b>Northing (SFT)</b>	1,596,035.6636	
<b>Easting (SFT)</b>	705,781.8594	
<b>Elevation (SFT)*</b>	373.380	

  

<b>Convergence Angle</b>	-1	6	45.9288069
<b>Scale Factor</b>	0.999973700		
<b>Elevation Adjust. Factor</b>	0.9999821404		
<b>Combined Adjust. Factor</b>	0.9999558408		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	NE	2.20	7.2
MK # 2	Fence corner	E	1.60	5.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 460026,460026A	This is a NGS first order benchmark.
<b>Ref Mon # 2</b> ARHP, B 307	
<b>Ref Mon # 3</b> TXMA, 460001	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> B 316	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> Lawrence	<b>Route</b> 63	<b>Job Number:</b> 100646
-------------------------	------------------------	----------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 1st Order by NGS
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 192,963.1869		<b>Latitude</b> 36 4 7.1278752
<b>Easting (M)</b> 488,432.8970		<b>Longitude</b> 91 1 5.8817280
<b>Elevation (M)*</b> 79.017		<b>Ellipsoid Height (M):</b> 51.059
<b>Northing (SFT)</b> 633,080.0557		<b>Geoid Height (M):</b> -27.957
<b>Easting (SFT)</b> 1,602,466.9296		
<b>Elevation (SFT)*</b> 259.240		

  

<b>Convergence Angle</b>	0	34	16.5003409
<b>Scale Factor</b>	0.999971592		
<b>Elevation Adjust. Factor</b>	0.9999875999		
<b>Combined Adjust. Factor</b>	0.9999591922		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARMH	Mark established by NGS 1st Order Levels.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> B 324	<b>Date Monumented</b> 11/6/2008	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> 69	<b>Job Number:</b> 100445
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	189,863.4389	
<b>Easting (M)</b>	536,463.6660	
<b>Elevation (M)*</b>	79.884	
<b>Northing (SFT)</b>	622,910.2991	
<b>Easting (SFT)</b>	1,760,047.8775	
<b>Elevation (SFT)*</b>	262.088	

  

<b>Convergence Angle</b>	0	52	52.1985543
<b>Scale Factor</b>	0.999966837		
<b>Elevation Adjust. Factor</b>	0.9999874637		
<b>Combined Adjust. Factor</b>	0.9999543011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Water well	120	5.30	17.4
<b>MK # 2</b>	Water well w/concrete foundation	161	12.04	39.5
<b>MK # 3</b>	Power service pole	180	21.46	70.4

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARPG, ARBT BLMM <b>Ref Mon # 2</b> 280012,280012A <b>Ref Mon # 3</b> 280006,280006A	<b>Comments</b>  Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
---	---

  

Location Description	
To reach the station from the junction of highways 412 and 69 in downtown Paragould go south on highway 69 for 1.20 miles to the station on the left. 90.0 feet north of a gravel drive, 52.5 feet from a water well, 29.0 feet south of a gravel drive, 41.4 feet east of the center of hwy-69 and 1.0 feet west of a witness post. The station mark is a stainless steel rod encased in a 6 inch pvc pipe and accessed through a standard logo cap. The rod is driven to a depth of 42.50 feet.	

  

<b>AZ Mark Station</b>	A 324
<b>Geodetic Azimuth</b>	357 55 58
<b>Grid Azimuth</b>	357 03 06

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> B 326	<b>Date Monumented</b> 5/7/2009	<b>Monumented By</b> AHTD	<b>County</b> POPE	<b>Route</b> 7	<b>Job Number:</b> 080377, 080606
-------------------------	------------------------------------	------------------------------	-----------------------	-------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	108,627.3912	0.0030	
<b>Easting (M)</b>	296,504.7535	0.0020	
<b>Elevation (M)*</b>	112.074		
<b>Northing (SFT)</b>	356,388.3660		
<b>Easting (SFT)</b>	972,782.6788		
<b>Elevation (SFT)*</b>	367.696		

  

<b>Convergence Angle</b>	0	39	44.0774950
<b>Scale Factor</b>	0.999947569		
<b>Elevation Adjust. Factor</b>	0.9999824122		
<b>Combined Adjust. Factor</b>	0.9999299822		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	18	25.5059676
<b>Longitude</b>	93	8	17.0631636
<b>Ellipsoid Height:</b>	83.166		
<b>Grid Northing (Meters)</b>	108,627.3911		
<b>Grid Easting (Meters)</b>	296,504.7540		

  

<b>Vertical Determined By:</b>				1st Order - NGS			
<b>Elevation Datum:</b>				NAVD 88			
<b>Geoid Datum:</b>				Geoid12B			
<b>Latitude</b>				35	18	25.5059712	
<b>Longitude</b>				93	8	17.0631852	
<b>Ellipsoid Height (M):</b>				82.938			
<b>Geoid Height (M):</b>				-29.136			

  

Location Description
SOUTHEAST CORNER OF STATE HIGHWAY 7 AND ASPEN LANE IN RUSSELLVILLE.

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFY Ref Mon # 2    ARLR Ref Mon # 3    ARHR (ARHP)	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> BATEPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	154,528.5640	
<b>Easting (M)</b>	431,864.0720	
<b>Elevation (M)*</b>	141.400	
<b>Northing (SFT)</b>	506,982.4637	
<b>Easting (SFT)</b>	1,416,874.0429	
<b>Elevation (SFT)*</b>	463.910	

  

<b>Convergence Angle</b>	0	12	17.8207228
<b>Scale Factor</b>	0.999938972		
<b>Elevation Adjust. Factor</b>	0.9999778102		
<b>Combined Adjust. Factor</b>	0.9999167836		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST EDGE OF RUNWAY 7-25	N-NW	49.80	163.4
<b>MK # 2</b>	TAXIWAY CENTERLINE	S-SE	48.70	159.8
<b>MK # 3</b>	A CONNECTOR CENTERLINE	E-NE	27.30	89.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 43 32.5130196
<b>Longitude</b>	91 38 52.0470384
<b>Ellipsoid Height (M):</b>	113.890
<b>Geoid Height (M):</b>	-27.470

Location Description
<p>THE STATION IS LOCATED ABOUT 7.7 KM (4.78 MI) SOUTHWEST OF MOOREFIELD, 5.1 KM (3.17 MI) SOUTH OF BATESVILLE, AND 4.2 KM (2.61 MI) NORTHWEST OF SOUTHSIDE. AT THE BATESVILLE REGIONAL AIRPORT. OWNERSHIP--CITY OF BATESVILLE, P.O. BOX 2214, BATESVILLE, AR 72501. TELEPHONE NUMBER 501-251-1244 OR 501-251-1778. THE AIRPORT MANAGER IS MARY AMOS. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 14 AND 25 ABOUT 3.6 KM (2.24 MI) SOUTH OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.03 KM (0.64 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.1 KM (0.06 MI) TO A GATE. PASS THROUGH THE GATE AND GO SOUTHWEST ACROSS AN APRON FOR 0.16 KM (0.10 MI) TO RUNWAY 17-35. CONTINUE AHEAD CROSSING RUNWAY 17-35 AND ALONG TAXIWAY FOR 0.78 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 5X8-FOOT ROCK OUTCROP.</p>

<b>AZ Mark Station</b>	TEPORT AZ MK (FF2138)
<b>Geodetic Azimuth</b>	066 05 58.2
<b>Grid Azimuth</b>	065 53 40.4

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> BATESVILLE	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> USC&GS	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050000,050186
------------------------------	------------------------------------	--------------------------------	-------------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,002.8740	
<b>Easting (M)</b>	432,459.0620	
<b>Elevation (M)*</b>	122.307	
<b>Northing (SFT)</b>	524,942.7624	
<b>Easting (SFT)</b>	1,418,826.1059	
<b>Elevation (SFT)*</b>	401.270	

  

<b>Convergence Angle</b>	0	12	32.0599217
<b>Scale Factor</b>	0.999941460		
<b>Elevation Adjust. Factor</b>	0.9999808064		
<b>Combined Adjust. Factor</b>	0.9999222675		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED AT THE INTERSECTION OF 12TH AND BOSWELL STREETS IN THE VETERANS MEMORIAL PLAZA. THE STATION IS 14.33 METERS SOUTHEAST OF THE CENTER OF BOSWELL STREET, 32.60 METERS NORTHEAST OF THE CENTER OF 12TH STREET, AND 14.63 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 167. THE STATION MARK IS A STANDARD USC&amp;GS TRIANGULATION STATION DISK STAMPED "BATESVILLE 1934" SET IN THE TOP OF A ROUND CONCRETE POST. THE MARK IS ABOUT 0.50 METERS BELOW THE SURFACE LEVEL OF THE PARK. IT IS ENCASED IN A ROUND PIPE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	125	4.80	15.7
MK # 2	NATURAL GAS RISER	18	9.50	31.2
MK # 3	LIGHT POLE	293	5.15	16.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="FAA 7M9 A"/></p> <p>Ref Mon # 2: <input type="text" value="NEWSPORT"/></p> <p>Ref Mon # 3: <input type="text" value="BATEPORT"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>NGS 2nd Order Benchmark</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
BENTONVILLE 44	1/1/2000	OF BENTONVILLE	BENTON	72	090153

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	231,232.7440	
<b>Easting (M)</b>	206,128.8790	
<b>Elevation (M)*</b>	345.960	
<b>Northing (SFT)</b>	758,636.0943	
<b>Easting (SFT)</b>	676,274.4972	
<b>Elevation (SFT)*</b>	1,135.037	

  

<b>Convergence Angle</b>	-1	15	27.4183594
<b>Scale Factor</b>	1.000036787		
<b>Elevation Adjust. Factor</b>	0.9999457105		
<b>Combined Adjust. Factor</b>	0.9999824955		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH GATE POST	340	6.40	21.0
<b>MK # 2</b>	SOUTH GATE POST	308	3.60	11.8
<b>MK # 3</b>	CORNER OF BRICK FENCE POST	249	3.34	11.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	SILLOAM

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 36 23 53.9819160

**Longitude** 94 9 40.4178444

**Ellipsoid Height (M):** 317.866

**Geoid Height (M):** -28.094

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 72, GO EAST ON STATE HIGHWAY 72 FOR 1.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 72, 6.30 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE, AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 90 mm BRASS CAP STAMPED " CITY OF BENTONVILLE 44 2000" SET IN A CONCRETE MONUMENT FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> BENTPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> USC&GS	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090174, 090834
----------------------------	------------------------------------	--------------------------------	-------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	225,570.2711	
<b>Easting (M)</b>	200,808.6820	
<b>Elevation (M)*</b>	395.012	
<b>Northing (SFT)</b>	740,058.4644	
<b>Easting (SFT)</b>	658,819.8175	
<b>Elevation (SFT)*</b>	1,295.969	

  

<b>Convergence Angle</b>	-1	17	28.6382228
<b>Scale Factor</b>	1.000024276		
<b>Elevation Adjust. Factor</b>	0.9999380136		
<b>Combined Adjust. Factor</b>	0.9999622881		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT. BEAR RIGHT AND GO NORTH ACROSS AN APRON TO A CONNECTOR LOCATED AT THE NORTH EDGE OF THE APRON. TURN LEFT AND GO WEST ALONG THE CONNECTOR TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS 21.9 METERS EAST OF THE CENTER OF THE RUNWAY, 15.5 METERS NORTH OF THE CONNECTOR CENTERLINE, AND 7.9 METERS NORTHEAST FROM THE CURVED PAVEMENT AT THE JUNCTION OF THE RUNWAY AND CONNECTOR. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	BENTPORT AZ MK
			Meters	Feet		
MK # 1	NONE					
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	CASSPORT	
Ref Mon # 2	V 26	
Ref Mon # 3	JAY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ENTPORT AZ M	1/1/1990	USC&GS	BENTON	N/A	090174,009834

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,133.8171	
<b>Easting (M)</b>	200,819.1130	
<b>Elevation (M)*</b>	392.405	
<b>Northing (SFT)</b>	741,907.3649	
<b>Easting (SFT)</b>	658,854.0399	
<b>Elevation (SFT)*</b>	1,287.415	

  

<b>Convergence Angle</b>	-1	17	28.6912284
<b>Scale Factor</b>	1.000025459		
<b>Elevation Adjust. Factor</b>	0.9999384227		
<b>Combined Adjust. Factor</b>	0.9999638801		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT AND NORTHWEST ACROSS AN APRON AND WEST ALONG A TAXIWAY FOR 0.14 KM (0.09 MI) TO THE RUNWAY. TURN RIGHT AND GO NORTH ON THE RUNWAY FOR 0.62 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.65 METERS EAST OF THE EAST EDGE OF RUNWAY END 17 AND 3.55 METERS EAST-SOUTHEAST FROM THE EAST 1 OF 3 RUNWAY END LIGHTS. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CASSPORT</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: JAY</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> BMD3	<b>Date Monumented</b> 8/31/2017	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 79	<b>Job Number:</b> 020630
------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	588,683.6964	0.0020			
<b>Easting (M)</b>	419,402.1736	0.0020			
<b>Elevation (M)*</b>	59.842				
<b>Northing (SFT)</b>	1,931,373.0939				
<b>Easting (SFT)</b>	1,375,988.6312				
<b>Elevation (SFT)*</b>	196.330				

  

<b>Convergence Angle</b>	0	7	5.0235980
<b>Scale Factor</b>	0.999935330		
<b>Elevation Adjust. Factor</b>	0.9999906090		
<b>Combined Adjust. Factor</b>	0.9999259396		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
From the Wabbaseka United Methodist Church on Hwy 79 go North for 0.7 miles to station on the left a standard Corp of Engineer cap. 30' NE of a witness post, 28' W of CL Hwy 79.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	witness post		9.14	30.0	
MK # 2	CL HWY. 79		8.53	28.0	
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARPB"/> Ref Mon # 2 <input type="text" value="ARLR"/> Ref Mon # 3 <input type="text" value="ARWY"/>	Position and elevation updated by crew S5113 in August 2017 during job 020630, determined by static GPS constraining the ortho. Ht. at ARPB.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
BRINKLEYPORT	1/1/1987	NGS	MONROE	70	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	646,218.8521	
<b>Easting (M)</b>	475,444.5830	
<b>Elevation (M)*</b>	57.251	
<b>Northing (SFT)</b>	2,120,136.3506	
<b>Easting (SFT)</b>	1,559,854.4361	
<b>Elevation (SFT)*</b>	187.831	

  

<b>Convergence Angle</b>	0	27	42.8144506
<b>Scale Factor</b>	1.000028221		
<b>Elevation Adjust. Factor</b>	0.9999910155		
<b>Combined Adjust. Factor</b>	1.0000192363		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED 6.5 KM (4.05 MI) WEST OF WHEATLEY, 1.6 KM (1.00 MI) EAST OF BRINKLEY, AT THE FRANK FEDERER MEMORIAL AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND A TAXIWAY FROM THE APRON AND OFFICE. OWNERSHIP--CITY OF BRINKLEY, AIRPORT MANAGER IS LEWIS DALTON, 233 WEST CEDAR STREET, BRINKLEY AR 72021, PHONE 501-734-1950. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND U.S. HIGHWAY 49 (EXIT 216) ON THE NORTH SIDE OF BRINKLEY, GO SOUTHERLY ON HIGHWAY 49 FOR 2.4 KM (1.50 MI) TO THE JUNCTION OF U.S. HIGHWAY 70 EAST. TURN LEFT, EAST ON HIGHWAY 70 FOR 1.6 KM (1.00 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, SOUTH ON THE ROAD, PASSING BETWEEN A LARGE BRICK BUILDING AND A ROW OF RED METAL STORAGE SHEDS, FOR 0.16 KM (0.10 MI) TO A METAL HANGAR ON THE LEFT AND A TAXIWAY STRAIGHT AHEAD. CONTINUE AHEAD, SOUTH, THEN SOUTHEAST ALONG THE TAXIWAY FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	RUNWAY CENTER		W	27.60	90.6	EYPORT AZ MK (EH3107)
MK # 2	TAXIWAY CENTER		S	14.00	45.9	206 10 16.8
MK # 3	TAXIWAY LIGHT AT JUNCTION OF RUNWAY AND TAXIWAY		W-SW	11.60	38.1	205 42 34.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
URLINGTON RES	4/1/1994	erial Data Servic	BOONE	65	NA

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	233,225.5911	
<b>Easting (M)</b>	288,867.3562	
<b>Elevation (M)*</b>	500.479	
<b>Northing (SFT)</b>	765,174.2935	
<b>Easting (SFT)</b>	947,725.6511	
<b>Elevation (SFT)*</b>	1,641.988	

  

<b>Convergence Angle</b>	0	43	16.1153549
<b>Scale Factor</b>	1.000044585		
<b>Elevation Adjust. Factor</b>	0.9999214647		
<b>Combined Adjust. Factor</b>	0.9999660462		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> BUTLER	<b>Date Monumented</b> 3/29/2002	<b>Monumented By</b> AHTD	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> NA
--------------------------	-------------------------------------	------------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	161,696.2150				
<b>Easting (M)</b>	432,866.2190				
<b>Elevation (M)*</b>	87.828				
<b>Northing (SFT)</b>	530,498.3320				
<b>Easting (SFT)</b>	1,420,161.9202				
<b>Elevation (SFT)*</b>	288.149				

  

<b>Convergence Angle</b>	0	12	41.6383266
<b>Scale Factor</b>	0.999942378		
<b>Elevation Adjust. Factor</b>	0.9999862171		
<b>Combined Adjust. Factor</b>	0.9999285959		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						NONE
MK # 2						
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> FAA 7M9 A <b>Ref Mon # 2</b> BATEPORT <b>Ref Mon # 3</b> NEWSPORT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> C 184	<b>Date Monumented</b> 6/10/2002	<b>Monumented By</b> NGS	<b>County</b> CRAIGHEAD	<b>Route</b> N/A	<b>Job Number:</b> 100306
-------------------------	-------------------------------------	-----------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	165,839.9969	
<b>Easting (M)</b>	537,882.4730	
<b>Elevation (M)*</b>	69.496	
<b>Northing (SFT)</b>	544,093.3898	
<b>Easting (SFT)</b>	1,764,702.7468	
<b>Elevation (SFT)*</b>	228.005	

  

<b>Convergence Angle</b>	0	53	16.5209154
<b>Scale Factor</b>	0.999944268		
<b>Elevation Adjust. Factor</b>	0.9999890939		
<b>Combined Adjust. Factor</b>	0.9999333625		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	254	0.85	2.8
<b>MK # 2</b>	TELEPHONE BOX	126	1.40	4.6
<b>MK # 3</b>	SOUTH END REINFORCED CONCRETE PIPE	335	7.50	24.6

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="VILLPORT"/> <b>Ref Mon # 2</b> <input type="text" value="AHTD PAR 1"/> <b>Ref Mon # 3</b> <input type="text" value="MANIPORT"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 49 6.7230336
<b>Longitude</b>	90 28 26.7439332
<b>Ellipsoid Height (M):</b>	41.596
<b>Geoid Height (M):</b>	-27.873

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED 10 MILES EAST OF JONESBORO, GO EAST ON HIGHWAY 18 0.15 MILES TO CRAIGHEAD COUNTY ROAD 800 ON THE RIGHT. TURN RIGHT (SOUTH) ON CRAIGHEAD COUNTY ROAD 800 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS SOUTH OF THE CENTERLINE OF A GRAVEL ROAD (ABANDONED RAILROAD BED), 5.75 METERS EAST OF THE CENTERLINE OF A GRAVEL ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A U.S. COAST GUARD AND GEODETIC SURVEY BENCH MARK DISC STAMPED C 184 1956 SET IN TOP OF A 0.30 METER CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> C 320	<b>Date Monumented</b> 2/13/2008	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> NA	<b>Job Number:</b> 061201
-------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	623,259.6860	
<b>Easting (M)</b>	375,692.6680	
<b>Elevation (M)*</b>	99.676	
<b>Northing (SFT)</b>	2,044,811.1532	
<b>Easting (SFT)</b>	1,232,585.0283	
<b>Elevation (SFT)*</b>	327.020	

  

<b>Convergence Angle</b>	0	8	54.4379559
<b>Scale Factor</b>	0.999981680		
<b>Elevation Adjust. Factor</b>	0.9999843578		
<b>Combined Adjust. Factor</b>	0.9999660381		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	85	12.80	42.0
MK # 2	POWER POLE W/GUY	118	13.56	44.5
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHP</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARBT								
Ref Mon # 3	ARHP								
Comments									
3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.									

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 40 45.3594180
<b>Longitude</b>	92 15 54.8809164
<b>Ellipsoid Height (M):</b>	73.238
<b>Geoid Height (M):</b>	-26.438

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 530 AND DIXON ROAD (HWY 338, EXIT 3), SOUTH OF LITTLE ROCK, GO APPROXIMATELY 300 FEET AND TURN LEFT ON SHAMBURGER ROAD AND GO 0.40 MILES TO THE STATION MARK ON NTHE LEFT. THE MARK IS A BRASS CAP SET IN A LARGE ROCK OUTCROP 70.3 FEET OF SHAMBURGER ROAD AND EAST 2.00 FEET OF A WITNESS POST.

<b>AZ Mark Station</b>	600063
<b>Geodetic Azimuth</b>	164 45 20
<b>Grid Azimuth</b>	164 54 14

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
CARROLL PN-1	7/15/2002	AHTD	CARROLL	143	9562_1

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,635.4031	
<b>Easting (M)</b>	254,507.4810	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	753,395.4850	
<b>Easting (SFT)</b>	834,996.6272	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	56	37.2703028
<b>Scale Factor</b>	1.000035299		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-62, HWY-143 AND CARROLL COUNTY ROAD 980 ABOUT 8 MILES EAST OF EUREKA SPRINGS, GO NORTH ON HWY-143 FOR 0.12 MILES TO THE STATION ON THE LEFT. 9.70 METERS WEST OF THE CENTER OF HWY-143.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				CARROLL CO PN-2	
MK # 2					Geodetic Azimuth	175 24 07
MK # 3					Grid Azimuth	176 20 44

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> CASSPORT <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> LROC	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
CARROLL PN-2	7/15/2002	AHTD	CARROLL	62	9562_1

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,377.2911	
<b>Easting (M)</b>	254,523.9670	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	752,548.6626	
<b>Easting (SFT)</b>	835,050.7151	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	56	36.7861776
<b>Scale Factor</b>	1.000034727		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-62, HWY-143 NORTH AND CARROLL COUNTY ROAD 980 SOUTH ABOUT 8 MILES EAST OF EUREKA SPRINGS. 15.3 METERS SOUTH OF THE CENTER OF HWY-62 AND 10.7 METERS EAST OF THE CENTER OF COUNTY ROAD 980.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	175	7.75	25.4
MK # 2	WEST END OF CMP	100	15.95	52.3
MK # 3	"CITGO" SIGN	130	12.25	40.2

  

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CASSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LROC</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CASSPORT	Ref Mon # 2	V 26	Ref Mon # 3	LROC	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Area Reference Monuments (used for Processing)										
Ref Mon # 1	CASSPORT									
Ref Mon # 2	V 26									
Ref Mon # 3	LROC									
Comments										

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
CARROLL PN-3	7/15/2002	AHTD	CARROLL	62	9562_1

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	229,163.0971	
<b>Easting (M)</b>	254,506.1890	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	751,845.9277	
<b>Easting (SFT)</b>	834,992.3884	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	56	37.1188461
<b>Scale Factor</b>	1.000034253		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-62, HWY-143 AND CARROLL COUNTY ROAD 980 ABOUT 8 MILES EAST OF EUREKA SPRINGS, GO SOUTH ON COUNTY ROAD 980 FOR 0.12 MILES TO THE STATION ON THE RIGHT. 4.4 METERS WEST OF THE CENTER OF COUNTY ROAD 980 AND 3.5 METERS FROM THE CENTER OF A GATED FIELD ENTRANCE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NORTH END OF A CMP	285	2.65	8.7
<b>MK # 2</b>	POWER POLE	050	16.70	54.8
<b>MK # 3</b>	NORTHERN MOST STEEL GATE POST	270	14.00	45.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> CASSPORT</p> <p><b>Ref Mon # 2</b> V 26</p> <p><b>Ref Mon # 3</b> LROC</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> CDH A	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> OUACHITA	<b>Route</b> 79	<b>Job Number:</b> 070258
-------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,281.8652	
<b>Easting (M)</b>	329,374.9720	
<b>Elevation (M)*</b>	38.360	
<b>Northing (SFT)</b>	1,664,307.2527	
<b>Easting (SFT)</b>	1,080,624.3873	
<b>Elevation (SFT)*</b>	125.853	

  

<b>Convergence Angle</b>	0	25	33.8238849
<b>Scale Factor</b>	0.999943034		
<b>Elevation Adjust. Factor</b>	0.9999939801		
<b>Combined Adjust. Factor</b>	0.9999370144		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, AT HARRELL FIELD AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, ALONG THE EAST SIDE OF RUNWAY END 18 AND IN LINE WITH THE RUNWAY END. OWNERSHIP--CITY OF CAMDEN, FBO IS JIM ADVANT, PO BOX 26, CAMDEN AR 71701, PHONE 501-574-2642. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 4, ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, GO NORTHEAST ON HIGHWAY 79 FOR 0.48 KM (0.30 MI) TO AIRPORT ROAD ON THE RIGHT. TURN RIGHT, EASTERLY ON THE ROAD FOR 0.13 KM (0.10 MI) TO A PAVED ROAD RIGHT, JUST BEFORE REACHING BUILDING NUMBER 3 ON THE RIGHT. TURN RIGHT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A PARKING LOT ON THE SOUTH SIDE OF THE BUILDING AND A GATE IN THE PIPE FENCE ON THE LEFT AT THE APRON. TURN LEFT, EAST-SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR 0.18 KM (0.10 MI) TO THE JUNCTION OF A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.38 KM (0.25 MI) TO THE JUNCTION OF THE RUNWAY. CROSS THE RUNWAY, THEN TURN LEFT, NORTH ALONG THE RUNWAY FOR 1.36 KM (0.85 MI) TO THE STATION ON THE</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CENTER OF THE REIL	SE		8.10	26.6
MK # 2	NORTHEAST CORNER OF THE RUNWAY	E		28.70	94.2
MK # 3	RUNWAY CENTER	E		43.80	143.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
HERPORT AZ M	1/1/1990	NGS	SHARP	62	050146,050098

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	214,360.0590	
<b>Easting (M)</b>	439,255.5190	
<b>Elevation (M)*</b>	209.560	
<b>Northing (SFT)</b>	703,279.6269	
<b>Easting (SFT)</b>	1,441,124.1486	
<b>Elevation (SFT)*</b>	687.531	

  

<b>Convergence Angle</b>	0	15	15.1160422
<b>Scale Factor</b>	1.000006348		
<b>Elevation Adjust. Factor</b>	0.9999671143		
<b>Combined Adjust. Factor</b>	0.9999734621		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF AGNOS, 10 KM (6.20 MI) SOUTHWEST OF HARDY, 6 KM (3.70 MI) NORTHEAST OF ASH FLAT, AT THE CHEROKEE VILLAGE AIRPORT, NEAR MIDFIELD ALONG THE NORTHWEST SIDE OF THE RUNWAY, JUST NORTHEAST OF THE SOUTHWEST END OF A LOW RISE. OWNERSHIP--CITY OF ASH FLAT. THE AIRPORT IS LEASED BY ED MARKLINE, 20 AIRPORT LANE, ROUTE 4, PO BOX 1, HARDY AR 72542. HE IS ALSO THE AIRPORT MANAGER, PHONE 501-257-2289. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. AN ESCORT MAY BE REQUIRED. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHWESTERLY ON HIGHWAY 63 FOR 10.7 KM (6.65 MI) TO THE SOUTHWEST ONE OF TWO JUNCTIONS OF STATE HIGHWAY 175S ON THE RIGHT. CONTINUE AHEAD, SOUTHWEST ON HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO A PAVED ROAD RIGHT, ALLEGHENY DRIVE. TURN RIGHT, NORTHERLY ON ALLEGHENY DRIVE FOR 1.14 KM (0.70 MI) TO A PAVED T-JUNCTION. TURN LEFT, WEST AND NORTHWEST ON AIRPORT LANE FOR 0.13 KM (0.10 MI) TO A GATE. CONTINUE AHEAD NORTHWEST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR ABOUT 40 M (131.2 FT) TO THE RUNWAY. TURN LEFT, SOUTHWEST ALONG THE RUNWAY FOR 0.63 KM (0.40 MI) TO THE STATION</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: Q 313</p> <p>Ref Mon # 3: FAA 7M9 A</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV BY 3 WIRE FROM NGS PT D 167</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> CLARPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	127,071.8191	
<b>Easting (M)</b>	270,607.6540	
<b>Elevation (M)*</b>	135.900	
<b>Northing (SFT)</b>	416,901.4598	
<b>Easting (SFT)</b>	887,818.6115	
<b>Elevation (SFT)*</b>	445.865	

  

<b>Convergence Angle</b>	0	49	46.7102420
<b>Scale Factor</b>	0.999937903		
<b>Elevation Adjust. Factor</b>	0.9999786733		
<b>Combined Adjust. Factor</b>	0.9999165776		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>STATION IS LOCATED ABOUT 21.6 KM (13.4 MI) NORTHEAST OF COAL HILL, 7.6 KM (4.7 MI) NORTHWEST OF LAMAR, AND 3.4 KM (2.1 MI) EAST-NORTHEAST OF CLARKSVILLE. AT THE CLARKSVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF CLARKSVILLE, P.O.BOX 583, CLARKSVILLE AR 72803. AIRPORT MANAGER IS GEORGE EVANS, P.O.BOX 1072, CLARKSVILLE AR 72830. PHONE IS 501-754-8899. TO REACH THE STATION FROM THE COUNTY COURTHOUSE IN CLARKSVILLE, GO WESTERLY ON U.S.HIGHWAY 64 FOR 2.91 KM (1.81 MI) TO A PAVED DRIVEWAY ON THE LEFT. TURN LEFT AND GO NORTH ON THE AIRPORT ENTRANCE ROAD AND ACROSS A PARKING LOT FOR 0.06 KM (0.04 MI) TO A GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND NORTH ALONG A TAXIWAY FOR 0.11 KM (0.07 MI) TO THE RUNWAY. TURN RIGHT AND GO ALONG THE RUNWAY TO A TURN AROUND AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 48.0 M (157.5 FT) WEST-SOUTHWEST OF THE FIRST RUNWAY LIGHT EAST OF THE TURN AROUND, 7.4 M (24.3 FT) SOUTH FROM THE SOUTH EDGE OF THE TURN AROUND, 0.65 M (2.13 FT) NORTH FROM A CARSONITE WITNESS POST. RUNWAY HAS BEEN EXTENDED 1520 FEET TO 4520 FEET. THE DISPLACED</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
COTTON 2 RM 5	1/1/1977	NGS	PEMISCOT / MC	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	194,011.8239	
<b>Easting (M)</b>	607,612.9040	
<b>Elevation (M)*</b>	86.064	
<b>Northing (SFT)</b>	636,520.4589	
<b>Easting (SFT)</b>	1,993,476.6692	
<b>Elevation (SFT)*</b>	282.362	

  

<b>Convergence Angle</b>	1	20	27.8714507
<b>Scale Factor</b>	0.999970354		
<b>Elevation Adjust. Factor</b>	0.9999864939		
<b>Combined Adjust. Factor</b>	0.9999568483		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 20.2 KM (12.55 MI) EAST-SOUTHEAST OF STEELE, MO., 12.9 KM (8.00 MI) SOUTH OF CARUTHERSVILLE, MO., AND 0.4 KM (0.25 MI) EAST OF COTTONWOOD POINT. IN THE GRASS, ON TOP OF THE LEVEE, JUST SOUTHEAST OF THE JUNCTION OF THE GRAVEL LEVEE ROAD AND A GRAVEL ROAD LEADING NORTHEAST, DOWN FROM THE TOP OF THE LEVEE. OWNERSHIP--PEMISCOT COUNTY, CITY CLERK IS JOHN ALFORD, COUNTY COURTHOUSE, CARUTHERSVILLE, MO. 63830. PHONE 573-333-4203. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE ROUTE E, NEAR THE SOUTHWEST EDGE OF COTTONWOOD POINT, GO SOUTHEAST, 0.49 KM (0.30 MI) ALONG HIGHWAY 164 TO THE TOP OF THE GRAVEL LEVEE CROSSROAD. TURN RIGHT, SOUTH, 0.21 KM (0.15 MI) ALONG THE TOP LEVEE ROAD, TO A GRAVEL CROSSROAD AND THE STATION ON THE LEFT, JUST SOUTHEAST OF THE JUNCTION. THE STATION IS 12.1 M (39.7 FT) NORTHEAST OF A METAL LEVEE SIGN (ST. FRANCIS LEVEE DIST.) , 10.4 M (34.1 FT) EAST OF THE GRAVEL LEVEE ROAD CENTER, 6.5 M (21.3 FT) SOUTHEAST OF A GRAVEL ROAD CENTER, 2.2 M (7.2 FT) EAST-SOUTHEAST OF A METAL WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH THE LEVEE ROAD AND FLUSH WITH THE GROUND SURFACE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> CRAWFORD	<b>Date Monumented</b> 2/11/1996	<b>Monumented By</b> NGS	<b>County</b> BAXTER	<b>Route</b> 201	<b>Job Number:</b> 009814
----------------------------	-------------------------------------	-----------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	239,494.3062	
<b>Easting (M)</b>	371,176.1690	
<b>Elevation (M)*</b>	262.400	
<b>Northing (SFT)</b>	785,740.9029	
<b>Easting (SFT)</b>	1,217,767.1478	
<b>Elevation (SFT)*</b>	860.891	

  

<b>Convergence Angle</b>	0	11	13.8510205
<b>Scale Factor</b>	1.000061251		
<b>Elevation Adjust. Factor</b>	0.9999588226		
<b>Combined Adjust. Factor</b>	1.0000200711		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN SECTION 13, TWP 21 N, RNG 13 W, ABOUT 0.5 MI (0.8 KM) SOUTH OF THE ARKANSAS-MISSOURI STATE LINE, 1 MI (1.61 KM) EAST OF STATE HIGHWAY 201, ON THE RIGHT-OF-WAY OF COUNTY ROAD NUMBER 37. TO REACH THE STATION FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON ARKANSAS STATE HIGHWAY 201 FOR 12.6 MI (20.3 KM) TO THE JUNCTION OF COUNTY ROAD NUMBER 37 ON RIGHT. TURN RIGHT AND GO EAST FOR 0.90 MI (1.45 KM) ON COUNTY ROAD 37 TO THE STATION ON THE LEFT. THE STATION IS 22 FT (6.7 M) NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 37, 3.5 FT (1.1 M) SOUTH OF AN 8-INCH WOODEN FENCE POST WITH SIGN AND 26.7 FEET (8.1 M) NORTHWEST OF A GRAVEL DRIVEWAY TO THE CRAWFORD RESIDENCE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 210	<b>Date Monumented</b> 1/1/1962	<b>Monumented By</b> NGS	<b>County</b> CONWAY	<b>Route</b> 95	<b>Job Number:</b> 080BR7
-------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	108,856.9281		
<b>Easting (M)</b>	333,499.1210		
<b>Elevation (M)*</b>	186.343		
<b>Northing (SFT)</b>	357,141.4383		
<b>Easting (SFT)</b>	1,094,155.0328		
<b>Elevation (SFT)*</b>	611.360		

  

<b>Convergence Angle</b>	0	25	31.9685125
<b>Scale Factor</b>	0.999947134		
<b>Elevation Adjust. Factor</b>	0.9999707576		
<b>Combined Adjust. Factor</b>	0.9999178931		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	
Ref Mon # 2: ARBT	
Ref Mon # 3: ARFY	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 18 44.3496420
<b>Longitude</b>	92 43 52.7046024
<b>Ellipsoid Height (M):</b>	157.946
<b>Geoid Height (M):</b>	-28.397

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 95 AND 213N, NORTH OF MORRILTON, GO NORTH ON 95 FOR 3.0 MILES TO THE MARK ON THE LEFT, 160 FEET NORTH OF A PAVED ROAD (MISSLE ROAD) TO THE EAST, 30 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 1 FOOT EAST OF A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "D 210 1962" SET IN A CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 294	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> R80072
-------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	112,476.2451	
<b>Easting (M)</b>	280,419.3720	
<b>Elevation (M)*</b>	124.944	
<b>Northing (SFT)</b>	369,015.8141	
<b>Easting (SFT)</b>	920,009.2230	
<b>Elevation (SFT)*</b>	409.920	

  

<b>Convergence Angle</b>	0	45	55.7576350
<b>Scale Factor</b>	0.999944973		
<b>Elevation Adjust. Factor</b>	0.9999803926		
<b>Combined Adjust. Factor</b>	0.9999253667		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) NORTHWEST OF RUSSELLVILLE, 5 KM (3.10 MI) WEST OF LONDON, IN THE EAST QUADRANT OF THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 359, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 315 (EXIT 67), ABOUT 24 KM (14.90 MI) NORTHWEST OF RUSSELLVILLE, GO SOUTHWEST ON HIGHWAY 315 FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF U.S. HIGHWAY 64. TURN LEFT, SOUTHEAST ON HIGHWAY 64 FOR 6.35 KM (3.95 MI) TO THE JUNCTION OF STATE HIGHWAY 359 ON THE LEFT. CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 64 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 5 CM BELOW THE GROUND. IT IS 15.5 M (50.9 FT) NORTHEAST OF AND ABOUT 2 M (6.6 FT) HIGHER THAN THE CENTER OF HIGHWAY 64, 0.5 M (1.6 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST IN A FENCE LINE AND 0.3 M (1.0 FT) SOUTHWEST OF THE FENCE.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CENTER OF A GRAVEL DRIVE	NW		10.10	33.1
MK # 2	TALL STEEL TELEPHONE CABLE WARNING POST	SE		4.90	16.1
MK # 3	TALL STEEL TELEPHONE CABLE WARNING POST	NW		4.00	13.1

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Elevation based on Published NGS Value </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 50	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> USC&GS	<b>County</b> WASHINGTON	<b>Route</b> 62	<b>Job Number:</b> NA
------------------------	------------------------------------	--------------------------------	-----------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	183,220.5970				
<b>Easting (M)</b>	178,921.5970				
<b>Elevation (M)*</b>	426.014				
<b>Northing (SFT)</b>	601,116.2420				
<b>Easting (SFT)</b>	587,011.9395				
<b>Elevation (SFT)*</b>	1,397.681				

  

<b>Convergence Angle</b>	-1	25	34.6297746
<b>Scale Factor</b>	0.999957383		
<b>Elevation Adjust. Factor</b>	0.9999331490		
<b>Combined Adjust. Factor</b>	0.9998905348		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-62 &amp; MAIN STREET IN LINCOLN GO WESTERLY ON HWY-62 FOR ABOUT 2.0 MILES TO A SIDE ROAD RIGHT AND STATION ON THE RIGHT, ABOUT 100 FEET NORTH OF THE CENTERLINE OF HWY-62, 24 FEET WEST OF THE CENTER OF A NORTH-SOUTH ROAD AND NEAR THE SOUTHEAST CORNER OF A FIELD.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="SPRINGDALE"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="DENNIS"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="NONE"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 52	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> NGS	<b>County</b> CLEBURNE	<b>Route</b> NA	<b>Job Number:</b> 050228
------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	124,889.2000	
<b>Easting (M)</b>	396,477.8100	
<b>Elevation (M)*</b>	274.041	
<b>Northing (SFT)</b>	409,740.6503	
<b>Easting (SFT)</b>	1,300,777.6150	
<b>Elevation (SFT)*</b>	899.083	

  

<b>Convergence Angle</b>	0	1	21.2870838
<b>Scale Factor</b>	0.999938310		
<b>Elevation Adjust. Factor</b>	0.9999569959		
<b>Combined Adjust. Factor</b>	0.9998953085		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	
Ref Mon # 2: ARBT	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 52-1	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> NGS	<b>County</b> CLEBURNE	<b>Route</b> NA	<b>Job Number:</b> 050175
--------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>					
<b>Horizontal Datum</b>							
<b>Northing (M)</b>	#Error						
<b>Easting (M)</b>	#Error						
<b>Elevation (M)*</b>							
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;">           TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 5, SOUTH OF HEBER SPRINGS, GO SOUTH ON HIGHWAY 5 0.15 MILES TO THE STATION MARK ON THE LEFT, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 17.2 FEET EAST OF A FENCE CO         </td> </tr> </table>		Location Description		TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 5, SOUTH OF HEBER SPRINGS, GO SOUTH ON HIGHWAY 5 0.15 MILES TO THE STATION MARK ON THE LEFT, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 17.2 FEET EAST OF A FENCE CO	
Location Description							
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 5, SOUTH OF HEBER SPRINGS, GO SOUTH ON HIGHWAY 5 0.15 MILES TO THE STATION MARK ON THE LEFT, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 17.2 FEET EAST OF A FENCE CO							
<b>Easting (SFT)</b>	#Type!						
<b>Elevation (SFT)*</b>							
<b>Convergence Angle</b> ### ### #Error							
<b>Scale Factor</b> #Error							
<b>Elevation Adjust. Factor</b>							
<b>Combined Adjust. Factor</b> #Type!							

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    HEBEPORT Ref Mon # 2    ARHR Ref Mon # 3    ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> D 85	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> NGS	<b>County</b> WOODRUFF	<b>Route</b> *	<b>Job Number:</b> 110541
------------------------	------------------------------------	-----------------------------	---------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	74,727.9500				
<b>Easting (M)</b>	468,016.5360				
<b>Elevation (M)*</b>	58.263				
<b>Northing (SFT)</b>	245,169.9493				
<b>Easting (SFT)</b>	1,535,484.2519				
<b>Elevation (SFT)*</b>	191.150				

  

<b>Convergence Angle</b>	0	26	0.9333777
<b>Scale Factor</b>	0.999986759		
<b>Elevation Adjust. Factor</b>	0.9999908568		
<b>Combined Adjust. Factor</b>	0.9999776159		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
AT COTTON PLANT, WOODRUFF COUNTY, IN THE NORTHWEST CORNER OF THE COUNTY COURTHOUSE LOT, 51 FEET SOUTH OF THE CENTER OF THE JUNCTION OF A SIDE STREET WITH MAIN STREET, 79 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE COURTHOUSE, AND 4 FEET SOUTH OF THE CORNER OF THE IRON FENCE. A STANDARD DISK, STAMPED D 85 1935 AND SET IN THE TOP OF A CONCRETE POST.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARLR Ref Mon # 2    ARBT Ref Mon # 3    MSOX	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> DAWSEY	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> NGS	<b>County</b> CRITTENDEN	<b>Route</b> 70	<b>Job Number:</b> 110505
--------------------------	------------------------------------	-----------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	90,883.0901	
<b>Easting (M)</b>	560,982.4130	
<b>Elevation (M)*</b>	63.039	
<b>Northing (SFT)</b>	298,172.2714	
<b>Easting (SFT)</b>	1,840,489.8000	
<b>Elevation (SFT)*</b>	206.821	

  

<b>Convergence Angle</b>	1	1	40.7633458
<b>Scale Factor</b>	0.999965869		
<b>Elevation Adjust. Factor</b>	0.9999901072		
<b>Combined Adjust. Factor</b>	0.9999559765		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST EDGE OF THE PARALLEL TAXIWAY	W	21.20	69.6
<b>MK # 2</b>	N END OF A CONCRETE HEADWALL	NE	14.30	46.9
<b>MK # 3</b>	WEST END OF A DRAIN PIPE	NW	14.30	46.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	3-wire levels ran by crew S5111 from first order NGS mark T 173 to NGS mark C 5 in June 07.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
EN 1 CORS L1 PI		NGS	SEVIER	CR 248	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	562,518.3160	
<b>Easting (M)</b>	188,758.2870	
<b>Elevation (M)*</b>	199.000	
<b>Northing (SFT)</b>	1,845,528.8417	
<b>Easting (SFT)</b>	619,284.4799	
<b>Elevation (SFT)*</b>	652.886	

  

<b>Convergence Angle</b>	-1	16	53.8698899
<b>Scale Factor</b>	0.999919351		
<b>Elevation Adjust. Factor</b>	0.9999687714		
<b>Combined Adjust. Factor</b>	0.9998881249		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
DESCRIBED BY NATIONAL GEODETIC SURVEY STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE BY ANONYMOUS FTP OR THE WORLDWIDE WEB. FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG HTTP://WWW.NGS.NOAA.GOV UNDER PRODUCTS AND SERVICES.			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> DIST2	<b>Date Monumented</b> 4/4/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> 20197,001930,R20149,02071
-------------------------	------------------------------------	------------------------------	----------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	569,141.5457	0.0030	
<b>Easting (M)</b>	407,921.7384	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,867,258.5545		
<b>Easting (SFT)</b>	1,338,323.2367		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	2	53.1742234
<b>Scale Factor</b>	0.999922220		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY ANDTRANSPORATION DEPARTMENT DISTRICT 2 HEADQUARTERS IN PINE BLUFF. TO REACH THE STATION FROM THE EASTERN MOST ENTRANCE ON HWY-65 GO THROUGH THE GATE STRAIGHT AHEAD (SOUTH) FOR 0.29 KM (0.18 MI) PASSING THE GAS STATION ON THE RIGHT TO THE END OF THE ASPHALT AND A PAVED ROAD LEFT, GO LEFT (EAST) FOR 0.06 KM (0.04 MI) TO THE STATION ON THE RIGHT. 3.90 METERS SOUTHEAST OF THE CENTER OF THE PAVED ROAD AND 1.50 METERS SOUTHEAST OF THE EDGE OF THE PAVEMENT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "DIST2 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG THAT IS ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD LITTLE ROCK</p> <p>Ref Mon # 2    AHTD LITTLE ROCK</p> <p>Ref Mon # 3    AHTD MON 1</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> DIST2 AZ	<b>Date Monumented</b> 5/29/1996	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> 197,R20149,001930,DDK,020
----------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	569,462.4877    0.0030
<b>Easting (M)</b>	407,946.1723    0.0030
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,868,311.5117	
<b>Easting (SFT)</b>	1,338,403.4003	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	53.7142714
<b>Scale Factor</b>	0.999922359		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM (4.30 MI) EAST OF PINE BLUFF, GO EAST ON HWY-65 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT, JUST PAST THE EAST ENTRANCE TO THE DISTRICT TWO HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT NEAR THE NORTH EDGE OF A PAVED CULDESAC. 23.65 METERS SOUTH OF THE CENTER OF HWY-65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "DIST2 AZ 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    AHTD LITTLE ROCK	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2    AHTD LITTLE ROCK	
Ref Mon # 3    AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
DIST2 AZ(OLD)	5/29/1996	AHTD	JEFFERSON	65	020197,R20149,001930,DDK

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	569,462.4919	
<b>Easting (M)</b>	407,946.1490	
<b>Elevation (M)*</b>	60.594	
<b>Northing (SFT)</b>	1,868,311.5255	
<b>Easting (SFT)</b>	1,338,403.3238	
<b>Elevation (SFT)*</b>	198.799	

  

<b>Convergence Angle</b>	0	2	53.7137616
<b>Scale Factor</b>	0.999922359		
<b>Elevation Adjust. Factor</b>	0.9999904909		
<b>Combined Adjust. Factor</b>	0.9999128507		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	11	40.3176660
<b>Longitude</b>	91	54	49.6163808
<b>Ellipsoid Height:</b>	33.939		
<b>Grid Northing (Meters)</b>	569,462.7724		
<b>Grid Easting (Meters)</b>	407,946.3802		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 AHTD LITTLE ROCK	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> DIST2(OLD)	<b>Date Monumented</b> 4/4/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> 020197,001930,R20149
------------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	569,141.5509	
<b>Easting (M)</b>	407,921.7130	
<b>Elevation (M)*</b>	61.170	
<b>Northing (SFT)</b>	1,867,258.5716	
<b>Easting (SFT)</b>	1,338,323.1534	
<b>Elevation (SFT)*</b>	200.689	

  

<b>Convergence Angle</b>	0	2	53.1736673
<b>Scale Factor</b>	0.999922220		
<b>Elevation Adjust. Factor</b>	0.9999904005		
<b>Combined Adjust. Factor</b>	0.9999126213		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	11	29.9015808
<b>Longitude</b>	91	54	50.5813464
<b>Ellipsoid Height:</b>	34.517		
<b>Grid Northing (Meters)</b>	569,141.8285		
<b>Grid Easting (Meters)</b>	407,921.9447		

  

Location Description			
<p>THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY ANDTRANSPORATION DEPARTMENT DISTRICT 2 HEADQUARTERS IN PINE BLUFF. TO REACH THE STATION FROM THE EASTERN MOST ENTRANCE ON HWY-65 GO THROUGH THE GATE STRAIGHT AHEAD (SOUTH) FOR 0.29 KM (0.18 MI) PASSING THE GAS STATION ON THE RIGHT TO THE END OF THE ASPHALT AND A PAVED ROAD LEFT, GO LEFT (EAST) FOR 0.06 KM (0.04 MI) TO THE STATION ON THE RIGHT. 3.90 METERS SOUTHEAST OF THE CENTER OF THE PAVED ROAD AND 1.50 METERS SOUTHEAST OF THE EDGE OF THE PAVEMENT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "DIST2 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG THAT IS ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					DISTRICT 2 AZ
MK # 2	NONE					4 24 08
MK # 3	NONE					4 21 14

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    AHTD LITTLE ROCK	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2    AHTD LITTLE ROCK	
Ref Mon # 3    AHTD MON 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> E 209	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> NGS	<b>County</b> CHOCTAW / OK	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	174.958	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	574.008	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999725441
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST GATE POST AT A FIELD ENTRANCE	SE	4.80	15.7
<b>MK # 2</b>	A OKDOT WOODEN WITNESS POST	S-SW	0.80	2.6
<b>MK # 3</b>	A OKDOT WOODEN WITNESS POST	S-SE	0.90	3.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>COORDINATES BASED ON OKLAHOMA SOUTH ZONE</td> </tr> </table>	Comments	COORDINATES BASED ON OKLAHOMA SOUTH ZONE
Comments			
COORDINATES BASED ON OKLAHOMA SOUTH ZONE			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> E 292	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOAA	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137
-------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	547,848.7440		
<b>Easting (M)</b>	439,385.9070		
<b>Elevation (M)*</b>	50.187		
<b>Northing (SFT)</b>	1,797,400.4209		
<b>Easting (SFT)</b>	1,441,551.9299		
<b>Elevation (SFT)*</b>	164.655		

  

<b>Convergence Angle</b>	0	14	19.0574963
<b>Scale Factor</b>	0.999918660		
<b>Elevation Adjust. Factor</b>	0.9999921241		
<b>Combined Adjust. Factor</b>	0.9999107847		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 1.6 KM (1.00 MI) TO THE STATION ON THE LEFT SET NEXT TO THE GOULD CITY LIMITS SIGN. THE STATION IS 51.51 METERS NORTHWEST OF RAILROAD MILEPOST 419, 14.32 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 13.28 METERS NORTHEAST OF THE NORTHEAST RAIL, 4.02 METERS SOUTHWEST OF THE SOUTHWEST POST OF THE GOULD CITY LIMITS SIGN, 0.3 METERS SOUTHEAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "E 292 1984" SET FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    J 112</p> <p>Ref Mon # 3    K 124</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> E 292A	<b>Date Monumented</b> 12/8/1988	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	547,352.1161		
<b>Easting (M)</b>	439,765.7660		
<b>Elevation (M)*</b>	50.276		
<b>Northing (SFT)</b>	1,795,771.0676		
<b>Easting (SFT)</b>	1,442,798.1840		
<b>Elevation (SFT)*</b>	164.947		

  

<b>Convergence Angle</b>	0	14	27.2970682
<b>Scale Factor</b>	0.999918711		
<b>Elevation Adjust. Factor</b>	0.9999921101		
<b>Combined Adjust. Factor</b>	0.9999108218		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	130	14.52	47.6
<b>MK # 2</b>	NORTHWEST END OF PLASTIC CULVERT	158	32.64	107.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1	
<b>Ref Mon # 2</b> J 112	
<b>Ref Mon # 3</b> K 124	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33    59    40.0619076
<b>Longitude</b>	91    34    10.3993212
<b>Ellipsoid Height (M):</b>	24.365
<b>Geoid Height (M):</b>	-25.912

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114 EAST, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 0.975 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A METAL BUILDING, 16.92 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "E 292A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> E 38	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> USC&GS	<b>County</b> BAXTER	<b>Route</b> 62	<b>Job Number:</b> R90094
------------------------	------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	226,580.3039	
<b>Easting (M)</b>	371,538.4450	
<b>Elevation (M)*</b>	250.412	
<b>Northing (SFT)</b>	743,372.2137	
<b>Easting (SFT)</b>	1,218,955.7150	
<b>Elevation (SFT)*</b>	821.560	

  

<b>Convergence Angle</b>	0	11	4.4092137
<b>Scale Factor</b>	1.000031120		
<b>Elevation Adjust. Factor</b>	0.9999607037		
<b>Combined Adjust. Factor</b>	0.9999918225		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	253	14.00	45.9
MK # 2	GUY POLE	70	27.50	90.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CRAWFORD</td> </tr> <tr> <td>Ref Mon # 3</td> <td>HOMEPORT</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	CRAWFORD	Ref Mon # 3	HOMEPORT	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	FAA 7M9 A								
Ref Mon # 2	CRAWFORD								
Ref Mon # 3	HOMEPORT								
Comments									

  

**Vertical Determined By:** LEVEL - Unkown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude** 36 22 30.5916816

**Longitude** 92 19 1.7944824

**Ellipsoid Height (M):** 222.103

**Geoid Height (M):** -28.309

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B, HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO EAST ON U.S. HIGHWAY 62 FOR 2.478 KM (1.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHWEST OF CENTER LINE OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED E 38 1934 SET IN TOP OF A ROUND CONCETE MONUMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ARNHART-HAL	4/19/1997	ARGLS	FAULKNER	65	080505

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	98,772.1871	
<b>Easting (M)</b>	364,828.7650	
<b>Elevation (M)*</b>	107.210	
<b>Northing (SFT)</b>	324,055.0838	
<b>Easting (SFT)</b>	1,196,942.3732	
<b>Elevation (SFT)*</b>	351.737	

  

<b>Convergence Angle</b>	0	13	29.3324242
<b>Scale Factor</b>	0.999955689		
<b>Elevation Adjust. Factor</b>	0.9999831756		
<b>Combined Adjust. Factor</b>	0.9999388653		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
STATION IS AN ARKANSAS HARN DISK SET INTO THE TOP OF A ROUND CONCRETE POST. NO DESCRIPTIVE DATA WERE SUBMITTED TO NGS. FOR ADDITIONAL INFORMATION, CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Previous three wire elevation was 107.2m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
DMONDSON RM	1/1/2020	CGS	CRITTENDEN	131	11800,110524

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	87,124.9311	
<b>Easting (M)</b>	553,953.9400	
<b>Elevation (M)*</b>	62.618	
<b>Northing (SFT)</b>	285,842.3781	
<b>Easting (SFT)</b>	1,817,430.5515	
<b>Elevation (SFT)*</b>	205.440	

  

<b>Convergence Angle</b>	0	58	57.7392282
<b>Scale Factor</b>	0.999970436		
<b>Elevation Adjust. Factor</b>	0.9999901733		
<b>Combined Adjust. Factor</b>	0.9999606095		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
DESCRIBED BY COAST AND GEODETIC SURVEY 1916 (JSB) AT EDMONDSON, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RR REFERENCE MARK IS A STANDARD BRONZE DISK SET IN CENTER OF SQUARE 'BLOCK OF CONCRETE WHICH FORMED THE SW FOUNDATION PIER OF WATER TANK, 8.96 METERS (29.4 FEET) S OF S RAIL OF MAIN TRACK. IN 1920 REFERENCE MARK WAS RECOVERED AND STAMPED WITH NAME 'AND DATES 1916, 1920, '96 FEET WEST-SOUTHWEST OF CENTER OF CROSSING OF A NORTH-SOUTH PAVED ROAD (STATE HIGHWAY 133)AND MAIN TRACK,			

  

<b>Location Reference Marks</b>				
	<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>	
			<b>Meters</b>	<b>Feet</b>
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> MSCD <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> ZME1	NGS 1ST ORDER MARK FOUND AND OCCUPIED BY CREW S5102. 3-WIRE LEVELS RAN BY S5104 2-2-07 AND FOUND EDMONDSON RM 1 WAS OFF 0.06' IN COMPARISON TO EDMONDSON 2 RM 3 AND EDMONDSON.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
EVANS AZ 1954		USC&GS	VAN BUREN	16	NA

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	142,318.9810	
<b>Easting (M)</b>	353,154.4880	
<b>Elevation (M)*</b>	463.752	
<b>Northing (SFT)</b>	466,924.8568	
<b>Easting (SFT)</b>	1,158,641.0160	
<b>Elevation (SFT)*</b>	1,521.493	

  

<b>Convergence Angle</b>	0	18	3.2297148
<b>Scale Factor</b>	0.999936079		
<b>Elevation Adjust. Factor</b>	0.9999272275		
<b>Combined Adjust. Factor</b>	0.9998633111		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 65 AND HWY. 16 ON THE NORTH EDGE OF THE TOWN OF CLINTON, GO WEST ON HWY. 16 FOR 4.10 MILES (6.598 KM) TO THE STATION ON THE RIGHT. THE STATION IS 28 FEET (8.53 METERS) NORTH OF THE CENTER OF HWY. 16 AND ABOUT 3.5 METERS SOUTH OF AN EAST-WEST FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "EVANS 1954" SET IN A ROUND CONCRETE POST THAT PROJECTS 0.30 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    NONE</p> <p><b>Ref Mon # 2</b>    NONE</p> <p><b>Ref Mon # 3</b>    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>COORDS ARRIVED BY USING EDM DISTANCE OBSERVED S5102 8/1995 AND OBSERVED AZIMUTH FROM STATION'S ORIGINAL OCCUPATION 1954. STATION "EVANS 1954" NOT SUITABLE FOR GPS OCCUPATION BECAUSE UNDER TREES.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> F 93	<b>Date Monumented</b> 1/2/1935	<b>Monumented By</b> USC&GS	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090009, 090557
------------------------	------------------------------------	--------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	161,645.4077 0.0030
<b>Easting (M)</b>	237,598.3845 0.0030
<b>Elevation (M)*</b>	502.034
<b>Northing (SFT)</b>	530,331.6418
<b>Easting (SFT)</b>	779,520.6998
<b>Elevation (SFT)*</b>	1,647.090

  

<b>Convergence Angle</b>	-1 2 43.0561521
<b>Scale Factor</b>	0.999941575
<b>Elevation Adjust. Factor</b>	0.9999212207
<b>Combined Adjust. Factor</b>	0.9998628003

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35 46	37.2180684	
<b>Longitude</b>	93 47	46.8531636	
<b>Ellipsoid Height:</b>	473.998		
<b>Grid Northing (Meters)</b>	161,645.4197		
<b>Grid Easting (Meters)</b>	237,598.3819		

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.36 KM (2.71 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.28 METERS EAST OF THE CENTER OF STATE HIGHWAY 23, 0.50 METERS EAST OF A NGS FIBERGLASS WITNESS POST, 0.50 METERS EAST OF A NGS METAL WITNESS POST AND 1.00 METERS EAST OF AN AHTD WITNESS POST. THE STATION MARK IS A USC&amp;GS BENCH MARK DISK STAMPED "F 93 1935" AND SET IN THE TOP OF CONCRETE POST. THE SHOT DISTANCE IS 405.305 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <b>Ref Mon # 1</b> ARFY, CTA1 (OLD MAIN) <b>Ref Mon # 2</b> ARHR, ARRV (GAYLOR) <b>Ref Mon # 3</b> ARFS (OZARPORT)	<b>Comments</b> HELD NGS PUBLISHED ELEVATION ON THIS MONUMENT ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> F 93A	<b>Date Monumented</b> 1/11/2000	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> 23	<b>Job Number:</b> 090009, 090557
-------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	161,300.4122	0.0020	
<b>Easting (M)</b>	237,385.7739	0.0020	
<b>Elevation (M)*</b>	505.261		

  

<b>Northing (SFT)</b>	529,199.7690		
<b>Easting (SFT)</b>	778,823.1599		
<b>Elevation (SFT)*</b>	1,657.676		

  

<b>Convergence Angle</b>	-1	2	47.8355098
<b>Scale Factor</b>	0.999941393		
<b>Elevation Adjust. Factor</b>	0.9999207144		
<b>Combined Adjust. Factor</b>	0.9998621121		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	46	25.8995784
<b>Longitude</b>	93	47	55.0670784
<b>Ellipsoid Height:</b>	477.230		
<b>Grid Northing (Meters)</b>	161,300.4191		
<b>Grid Easting (Meters)</b>	237,385.7577		

  

**Location Description**

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.76 KM (2.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 23, 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED " F 93A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 379.338 METERS.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	299	3.10	10.2
<b>MK # 2</b>	WEST END OF RCP	60	7.00	23.0
<b>MK # 3</b>	NONE			

  

<b>AZ Mark Station</b>	F 93
<b>Geodetic Azimuth</b>	30 35 56.20884
<b>Grid Azimuth</b>	31 38 44.05582

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARFY, CTA1 (OLD MAIN) <b>Ref Mon # 2</b> ARHR, ARRV (GAYLOR) <b>Ref Mon # 3</b> ARFS (OZARPORT)	<b>Comments</b>  HELD NGS PUBLISHED ELEVATION ON BM F 93 ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> F 98	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 061148,061381
------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,232.5565	
<b>Easting (M)</b>	367,688.9884	
<b>Elevation (M)*</b>	96.072	
<b>Northing (SFT)</b>	2,067,687.9791	
<b>Easting (SFT)</b>	1,206,326.2894	
<b>Elevation (SFT)*</b>	315.196	

  

<b>Convergence Angle</b>	0	11	50.9396354
<b>Scale Factor</b>	0.999994576		
<b>Elevation Adjust. Factor</b>	0.9999849234		
<b>Combined Adjust. Factor</b>	0.9999794995		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	34	44	30.8561712
<b>Longitude</b>	92	21	10.2371580
<b>Ellipsoid Height:</b>	69.519		
<b>Grid Northing (Meters)</b>	630,232.5590		
<b>Grid Easting (Meters)</b>	367,688.9760		

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF UNIVERSITY AVE. AND 12th STREET, IN LITTLE ROCK. GO WEST ON 12th STREET FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 13.70 FEET NORTH OF THE NORTH EDGE OF A CONCRETE SIDEWALK AND 29.50 FEET WEST OF THE C			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ROCK FENCE CORNER	89	1.92	6.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    600041, 600054 Ref Mon # 3    600055	<b>Comments</b>  3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> FAA 7M9 A	<b>Date Monumented</b> 3/25/1997	<b>Monumented By</b> NGS	<b>County</b> FULTON	<b>Route</b> 9	<b>Job Number:</b> NA
-----------------------------	-------------------------------------	-----------------------------	-------------------------	-------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	224,040.2481
<b>Easting (M)</b>	415,001.6520
<b>Elevation (M)*</b>	232.000
<b>Northing (SFT)</b>	735,038.7140
<b>Easting (SFT)</b>	1,361,551.2533
<b>Elevation (SFT)*</b>	761.153

  

<b>Convergence Angle</b>	0	5	50.1002032
<b>Scale Factor</b>	1.000025751		
<b>Elevation Adjust. Factor</b>	0.9999635930		
<b>Combined Adjust. Factor</b>	0.9999893430		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 2.41 KM (1.50 MI) SOUTH OF SALEM, AT THE SALEM MUNICIPAL AIRPORT AND IN ROCK OUTCROP. OWNERSHIP--CITY OF SALEM, SALEM CITY HALL, SALEM, AR 72576, AIRPORT MANAGER IS DON D. YOUNG, PHONE 501-895-2796. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND U.S. HIGHWAY 62 IN SALEM, GO SOUTH ON STATE HIGHWAY 9 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF COUNTY ROAD 980 ON THE LEFT (WITH AIRPORT SIGN), TURN LEFT, SOUTHERLY, ON COUNTY ROAD 980 FOR 0.56 KM (0.35 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT, TURN LEFT, EAST, ON THE ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO THE APRON, CONTINUE AHEAD ACROSS THE APRON TO THE JUNCTION OF THE RUNWAY, TURN RIGHT, SOUTH, ONTO THE RUNWAY FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF THE RUNWAY	W	13.70	44.9
<b>MK # 2</b>	SECOND RUNWAY LIGHT NORTH OF THE E	SW	11.60	38.1
<b>MK # 3</b>	A FIBERGLASS WITNESS POST	S	0.30	1.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> FARINDALE	<b>Date Monumented</b> 1/1/1964	<b>Monumented By</b> NGS	<b>County</b> Cleveland	<b>Route</b> 167	<b>Job Number:</b> 001914
-----------------------------	------------------------------------	-----------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	553,414.2600	
<b>Easting (M)</b>	362,165.2270	
<b>Elevation (M)*</b>	84.470	
<b>Northing (SFT)</b>	1,815,659.9514	
<b>Easting (SFT)</b>	1,188,203.7489	
<b>Elevation (SFT)*</b>	277.132	

  

<b>Convergence Angle</b>	0	13	45.7115745
<b>Scale Factor</b>	0.999918503		
<b>Elevation Adjust. Factor</b>	0.9999867441		
<b>Combined Adjust. Factor</b>	0.9999052482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 8.09 miles to the station on the right on top of a hill. 100 feet east of the center of Hwy-167, 17 feet south of the center of an asphalt drive and 1.65 feet west of a witness post. The station is a USC&amp;GS disc stamped "Farindale 1964" set on top of a concrete post projecting 5 inches.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with guy	208	4.50	14.8
MK # 2	Guy wire base	148	4.10	13.5
MK # 3	Metal gate post	068	4.70	15.4

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	<p>This station is a 2nd order triangulation station determined by classical geodetic methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> FARM	<b>Date Monumented</b> 1/1/1965	<b>Monumented By</b> CGS	<b>County</b> LAIBORNE / L	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	108.563	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	356.177	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999829632
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 2.5 MI (4.0 KM) SOUTH OF HOMER, 7.0 MI (11.3 KM) NORTH-NORTHWEST OF ATHENS AND 16.0 MI (25.7 KM) NORTHEAST OF MINDEN. OWNERSHIP-- NORTH LOUISIANA HILL FARM EXPERIMENT STATION OF THE LOUISIANA STATE UNIVERSITY. TO REACH THE STATION FROM THE COURTHOUSE IN HOMER GO SOUTH FOR 0.4 MI (0.6 KM) ON U. S. HIGHWAY 79 TO WHERE THE HIGHWAY CURVES RIGHT, ANGLE LEFT ACROSS THE RAILROAD TRACKS AND GO SOUTH FOR 2.0 MI (3.2 KM) ON LYONS HILL ROAD TO A T-ROAD INTERSECTION, TURN LEFT AND GO EAST FOR 0.05 MI (0.08 KM) ON A PAVED ROAD TO A SIDE ROAD JUNCTION, TURN RIGHT AND GO SOUTH FOR 0.2 MI (0.3 KM) ON A PAVED ROAD TO THE STATION SET ON THE RIGHT. THE STATION IS 31.0 FT (9.4 M) WEST FROM THE CENTER OF THE ROAD, 25.0 FT (7.6 M) SOUTH-SOUTHEAST FROM THE CENTER OF A PIPE GATE, 2.0 FT (0.6 M) EAST FROM A COMBINATION NET AND BARBED WIRE FENCE, 1.5 FT (0.5 M) EAST FROM A METAL WITNESS POST WITH SIGN ATTACHED, FLUSH WITH THE GROUND SURFACE AND ABOUT 3.0 FT (0.9 M) ABOVE THE LEVEL OF THE ROAD.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	COORDINATES BASED ON LOUISIANA NORTH ZONE    

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> FLINT	<b>Date Monumented</b> 1/1/1993	<b>Monumented By</b> NGS	<b>County</b> DELAWARE / OK	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	--------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	346.100	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	1,135.496	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999456886
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE	N	1.30	4.3
MK # 2	WEST ONE OF THREE BRACED FENCE POST	E-NE	2.40	7.9
MK # 3	YELLOW WOODEN POST	E	0.46	1.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	COORDINTES BASED ON OKLAHOMA NORTH ZONE
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
FOUNTAIN AZ	1/2/1939	USC&GS	ASHLEY	425	R20111

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	476,797.6827	
<b>Easting (M)</b>	413,839.6369	
<b>Elevation (M)*</b>	59.681	
<b>Northing (SFT)</b>	1,564,293.7307	
<b>Easting (SFT)</b>	1,357,738.8754	
<b>Elevation (SFT)*</b>	195.803	

  

<b>Convergence Angle</b>	0	4	59.6108279
<b>Scale Factor</b>	0.999987450		
<b>Elevation Adjust. Factor</b>	0.9999906342		
<b>Combined Adjust. Factor</b>	0.9999780843		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> STELL <b>Ref Mon # 2</b> S 197 <b>Ref Mon # 3</b> AHTD MON 1	

  

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.94 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 0.52 METERS EAST OF AN A.H.T.D. WITNESS POST AND 0.30 METERS NORTH OF AN N.G.S. WITNESS POST. THE STATION MARK IS A U.S.C.&G.S. AZIMUTH MARK DISK STAMPED "FOUNTAIN RESET 1939" SET IN TOP OF A ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY N.G.S.. THE SHOT DISTANCE IS 591.995 METERS.	

  

<b>AZ Mark Station</b>	020010
<b>Geodetic Azimuth</b>	359 18 11.96728
<b>Grid Azimuth</b>	359 13 12.35781

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> FREEMAN	<b>Date Monumented</b> 1/1/1964	<b>Monumented By</b> NGS	<b>County</b> Grant	<b>Route</b> 167	<b>Job Number:</b> 001914,RX0028
---------------------------	------------------------------------	-----------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	568,179.1490	
<b>Easting (M)</b>	363,257.1040	
<b>Elevation (M)*</b>	80.355	
<b>Northing (SFT)</b>	1,864,101.0913	
<b>Easting (SFT)</b>	1,191,786.0154	
<b>Elevation (SFT)*</b>	263.631	

  

<b>Convergence Angle</b>	0	13	23.1372075
<b>Scale Factor</b>	0.999921789		
<b>Elevation Adjust. Factor</b>	0.9999873899		
<b>Combined Adjust. Factor</b>	0.9999091799		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	10	56.4525804
<b>Longitude</b>	92	23	54.9559536
<b>Ellipsoid Height:</b>	53.643		
<b>Grid Northing (Meters)</b>	568,179.4612		
<b>Grid Easting (Meters)</b>	363,257.3671		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden corner post	164	5.26	17.3
MK # 2	3 foot post oak tree	359	16.08	52.7
MK # 3	Telephone junction box	229	26.00	85.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, IULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	This station is an NGS second order triangulation station established by classical methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 185	<b>Date Monumented</b> 1/1/1956	<b>Monumented By</b> CGS	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	170,288.4509	
<b>Easting (M)</b>	576,678.6790	
<b>Elevation (M)*</b>	73.338	
<b>Northing (SFT)</b>	558,688.0260	
<b>Easting (SFT)</b>	1,891,986.6327	
<b>Elevation (SFT)*</b>	240.610	

  

<b>Convergence Angle</b>	1	8	17.7689553
<b>Scale Factor</b>	0.999946856		
<b>Elevation Adjust. Factor</b>	0.9999884910		
<b>Combined Adjust. Factor</b>	0.9999353476		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
--	--

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 51 8.7829056
<b>Longitude</b>	90 2 37.9393440
<b>Ellipsoid Height (M):</b>	45.450
<b>Geoid Height (M):</b>	-27.880

Location Description
<p>THE STATION IS LOCATED ABOUT 0.4 KM (0.2 MI) SOUTHWEST OF DELL, IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT AND ON THE NORTHWEST SIDE OF STATE HIGHWAY 18. OWNERSHIP-- ARKANSAS DEPARTMENT OF TRANSPORTATION, P.O. BOX 2261, LITTLE ROCK, AR 72203, PHONE 501-569-2211. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 181 (NORTH) IN DELL, GO SOUTHWEST ON STATE HIGHWAY 18 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT UNDER HIGHWAY 18. THE STATION IS ABOUT 0.3 M (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY AND LOCATED 6.8 M (22.3 FT) NORTHWEST OF THE CENTER OF HIGHWAY 18, 1.3 M (4.3 FT) SOUTHWEST OF A FIBERGLASS WITNESS POST AND 0.25 M (0.82 FT) NORTHEAST OF THE SOUTHWEST END OF THE HEADWALL.</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 23	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> NGS	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070265, 070344
------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,301.7650	
<b>Easting (M)</b>	293,824.2320	
<b>Elevation (M)*</b>	66.489	
<b>Northing (SFT)</b>	1,779,201.7073	
<b>Easting (SFT)</b>	963,988.3345	
<b>Elevation (SFT)*</b>	218.140	

  

<b>Convergence Angle</b>	0	38	34.3892824
<b>Scale Factor</b>	0.999919700		
<b>Elevation Adjust. Factor</b>	0.9999895658		
<b>Combined Adjust. Factor</b>	0.9999092666		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/TEL RISER	046	19.40	63.6
<b>MK # 2</b>	RAILROAD SIGNAL	231	12.25	40.2
<b>MK # 3</b>	POWER POLE	210	19.80	65.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> C.O.R.S. HOPE	
<b>Ref Mon # 2</b> LROC	
<b>Ref Mon # 3</b> G 23, 100007	

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 56 39.5171916
<b>Longitude</b>	93 8 55.1220180
<b>Ellipsoid Height (M):</b>	39.720
<b>Geoid Height (M):</b>	-26.604

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-67 FOR 0.80 MILES TO THE STATION ON THE RIGHT. 8.60 METERS SOUTHEAST OF THE CENTER OF HWY-67, 4.50 METERS NORTHEAST OF THE NORTH RAIL. THE STATION MARK IS AN NGS BENCHMARK.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 23 A	<b>Date Monumented</b> 2/1/2005	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> 67	<b>Job Number:</b> 070265, 070344
--------------------------	------------------------------------	------------------------------	------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	542,852.9730	
<b>Easting (M)</b>	294,265.1440	
<b>Elevation (M)*</b>	70.767	
<b>Northing (SFT)</b>	1,781,010.1289	
<b>Easting (SFT)</b>	965,434.8933	
<b>Elevation (SFT)*</b>	232.175	

  

<b>Convergence Angle</b>	0	38	24.9134668
<b>Scale Factor</b>	0.999919567		
<b>Elevation Adjust. Factor</b>	0.9999888945		
<b>Combined Adjust. Factor</b>	0.9999084624		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-67 FOR 1.20 MILES TO THE STATION ON THE LEFT IN FRONT OF THE GURDON WOOD PRODUCTS PLANT. 15.80 METERS NORTHWEST OF THE CENTER OF HIGHWAY 67 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 23 A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF A PLANTER	234	17.70	58.1
MK # 2	LIGHT	248	15.45	50.7
MK # 3	WATER METER	040	20.10	65.9

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    C.O.R.S. HOPE</p> <p><b>Ref Mon # 2</b>    LROC</p> <p><b>Ref Mon # 3</b>    G 23, 100007</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 292	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOAA	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20092
-------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	543,325.1780	
<b>Easting (M)</b>	442,572.0280	
<b>Elevation (M)*</b>	48.631	
<b>Northing (SFT)</b>	1,782,559.3548	
<b>Easting (SFT)</b>	1,452,005.0619	
<b>Elevation (SFT)*</b>	159.550	

  

<b>Convergence Angle</b>	0	15	28.1060579
<b>Scale Factor</b>	0.999919353		
<b>Elevation Adjust. Factor</b>	0.9999923683		
<b>Combined Adjust. Factor</b>	0.9999117219		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.23 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 28.34 METERS SOUTH-SOUTHWEST OF THE SOUTH CORNER OF A BLOCK HOUSE, 7.01 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 6.09 METERS NORTHEAST OF A WITNESS POST AND 6.30 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "G 292 1984" SET FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	5	0.70	2.3
MK # 2	NORTHWEST CORNER OF WOODEN BARN	145	16.10	52.8
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD MON 1</p> <p>Ref Mon # 2    J 112</p> <p>Ref Mon # 3    K 124</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 292A	<b>Date Monumented</b> 12/8/1998	<b>Monumented By</b> AHTD	<b>County</b> DESHA	<b>Route</b> 65	<b>Job Number:</b> R20092
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	542,856.2280		
<b>Easting (M)</b>	442,882.3080		
<b>Elevation (M)*</b>	49.223		
<b>Northing (SFT)</b>	1,781,020.8080		
<b>Easting (SFT)</b>	1,453,023.0388		
<b>Elevation (SFT)*</b>	161.492		

  

<b>Convergence Angle</b>	0	15	34.8239977
<b>Scale Factor</b>	0.999919454		
<b>Elevation Adjust. Factor</b>	0.9999922754		
<b>Combined Adjust. Factor</b>	0.9999117300		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE = TBM 947	56	18.94	62.1
<b>MK # 2</b>	SOUTHEAST END CMP	80	10.11	33.2
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> AHTD MON 1 <b>Ref Mon # 2</b> J 112 <b>Ref Mon # 3</b> K 124	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33   57   13.6943604
<b>Longitude</b>	91   32   9.7488780
<b>Ellipsoid Height (M):</b>	23.325
<b>Geoid Height (M):</b>	-25.931

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE LEFT SET IN THE CENTER OF AN ELEVATED DRIVE TO A DRY POND. THE STATION IS 20.85 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 2.12 METERS SOUTHEAST OF A WITNESS POST AND 2.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 292A 1996" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 294	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> 080497
-------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	115,588.3589	0.0030
<b>Easting (M)</b>	277,320.1205	0.0030
<b>Elevation (M)*</b>	116.918	
<b>Northing (SFT)</b>	379,226.1408	
<b>Easting (SFT)</b>	909,841.0953	
<b>Elevation (SFT)*</b>	383.589	

  

<b>Convergence Angle</b>	0	47	8.1549225
<b>Scale Factor</b>	0.999943042		
<b>Elevation Adjust. Factor</b>	0.9999816521		
<b>Combined Adjust. Factor</b>	0.9999246951		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 315 AND STATE HIGHWAY 64, EAST OF KNOXVILLE, GO EAST ON HIGHWAY 64 FOR 1.25 MILES TO THE MARK ON THE LEFT, 48.5 FEET NORTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AND SET IN A LOGO CAP STAMPED "1984 G 294" .			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH OF SOUTH CORNER OF 1-S-F HOUSE	351	84.00	275.6
<b>MK # 2</b>	LIGHT POLE	318	92.00	301.8
<b>MK # 3</b>	OLD GUY POLE	93	64.50	211.6

  

<b>Area Reference Monuments (used for Processing)</b>  <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> P777	<b>Comments</b>  ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 309	<b>Date Monumented</b> 10/11/2004	<b>Monumented By</b> NGS	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 012007
-------------------------	--------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	209,473.6569				
<b>Easting (M)</b>	209,074.1970				
<b>Elevation (M)*</b>	411.166				
<b>Northing (SFT)</b>	687,248.1560				
<b>Easting (SFT)</b>	685,937.5947				
<b>Elevation (SFT)*</b>	1,348.967				

  

<b>Convergence Angle</b>	-1	14	7.7034779
<b>Scale Factor</b>	0.999994122		
<b>Elevation Adjust. Factor</b>	0.9999354788		
<b>Combined Adjust. Factor</b>	0.9999296012		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO RANDALL WOBBLE LANE AND TURN RIGHT (WEST) AND GO 0.30 MILES TO THE STATION MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE ROAD 8.17 METERS AND SOUTH 0.35 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309 2004" ON TOP OF A 3.4 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	END OF CHAIN LINK FENCE		2.19	7.2
<b>MK # 2</b>	EAST OF NEAREST RAILROAD RAIL		12.86	42.2
<b>MK # 3</b>	POWER POLE		2.00	6.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> AGRONOMY <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> 040054	FIRST ORDER, SECOND CLASS VERTICAL NGS BENCHMARK.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 309A	<b>Date Monumented</b> 10/6/2004	<b>Monumented By</b> AHTD	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> 012007,040520
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,474.2880	
<b>Easting (M)</b>	209,664.8770	
<b>Elevation (M)*</b>	422.470	
<b>Northing (SFT)</b>	687,250.2265	
<b>Easting (SFT)</b>	687,875.5173	
<b>Elevation (SFT)*</b>	1,386.054	

  

<b>Convergence Angle</b>	-1	13	53.9478783
<b>Scale Factor</b>	0.999994145		
<b>Elevation Adjust. Factor</b>	0.9999337050		
<b>Combined Adjust. Factor</b>	0.9999278504		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO THE STATION MARK ON THE LEFT, EAST 22.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND IT'S JUNCTION WITH RANDALL WOBBLE LANE, AND WEST 1.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CULVERT		7.80	25.6
MK # 2	NORTH END OF CONC DRAINAGE DITCH		24.90	81.7
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    AGRONOMY</p> <p>Ref Mon # 3    040054</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 310	<b>Date Monumented</b>	<b>Monumented By</b> NOAA	<b>County</b> MILLER	<b>Route</b> 82	<b>Job Number:</b> RX0018
-------------------------	------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	484,889.8791	
<b>Easting (M)</b>	228,630.9090	
<b>Elevation (M)*</b>	74.014	
<b>Northing (SFT)</b>	1,590,842.8783	
<b>Easting (SFT)</b>	750,099.9073	
<b>Elevation (SFT)*</b>	242.828	

  

<b>Convergence Angle</b>	-1	1	52.6816917
<b>Scale Factor</b>	0.999975911		
<b>Elevation Adjust. Factor</b>	0.9999883849		
<b>Combined Adjust. Factor</b>	0.9999642962		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 HOPE PORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 25 5.2734252
<b>Longitude</b>	93 50 33.4526892
<b>Ellipsoid Height (M):</b>	46.591
<b>Geoid Height (M):</b>	-27.423

  

Location Description
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 15.61 KM (9.70 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 14.7 METERS EAST OF TELEPHONE PEDESTAL NUMBER 212232, 4.8 METERS SOUTH OF A POWER POLE AND 2.4 METERS SOUTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A DATUM POINT REACHED THROUGH A FIVE INCH LOGO CAP. A STAINLESS STEEL ROD IN SLEEVE SET TO A DEPTH OF 35.0 METERS ENCASED IN A PIPE FLUSH WITH THE GROUND. THE SLEEVE DEPTH IS RECORDED AT 7.6 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G 8	<b>Date Monumented</b>	<b>Monumented By</b> NGS	<b>County</b> White	<b>Route</b> NA	<b>Job Number:</b> 050189
-----------------------	------------------------	-----------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Level
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 101,535.8231		<b>Latitude</b> 35 14 54.0354264
<b>Easting (M)</b> 420,470.0010		<b>Longitude</b> 91 46 30.2613420
<b>Elevation (M)*</b> 90.147		<b>Ellipsoid Height (M):</b> 63.377
<b>Northing (SFT)</b> 333,122.1130		<b>Geoid Height (M):</b> -27.261
<b>Easting (SFT)</b> 1,379,491.9949		
<b>Elevation (SFT)*</b> 295.757		

  

<b>Convergence Angle</b>	0	7	51.1862190
<b>Scale Factor</b>	0.999953019		
<b>Elevation Adjust. Factor</b>	0.9999858532		
<b>Combined Adjust. Factor</b>	0.9999388729		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
<b>Ref Mon # 2</b> Hebeport, G 8	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G308	<b>Date Monumented</b> 4/9/2003	<b>Monumented By</b> NOAA	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 030250
------------------------	------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	519,628.7212		
<b>Easting (M)</b>	177,975.6650		
<b>Elevation (M)*</b>	127.687		
<b>Northing (SFT)</b>	1,704,815.2295		
<b>Easting (SFT)</b>	583,908.4943		
<b>Elevation (SFT)*</b>	418.920		

  

<b>Convergence Angle</b>	-1	20	27.3758117
<b>Scale Factor</b>	0.999933264		
<b>Elevation Adjust. Factor</b>	0.9999799621		
<b>Combined Adjust. Factor</b>	0.9999132275		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND HIGHWAY 32 WEST IN FORMAN, GO WEST ON HIGHWAY 32 FOR 0.20 MILES TO THE STATION ON THE RIGHT LOCATED AT THE NORTH WEST CORNER OF THE JUNCTION OF HIGHWAY 32 AND NORTH BELL STREET. THE STATION IS 10.4 METERS NORTH OF THE CENTERLINE OF HIGHWAY 32 AND 8.9 METERS WEST OF NORTH BELL STREET AND 0.50 METERS SOUTH OF A WITNESS POST. THIS IS AT THE SOUTHEAST CORNER OF THE U.S. POST OFFICE PARKING LOT IN FORMAN. THE STATION MARK IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS ROD INCASED IN A 5 INCH PVC PIPE STAMPED "G308 1986". ACCESS IS THROUGH A 5 INCH LOGO CAP. THIS IS A NGS BENCH MARK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	171	0.80	2.6
MK # 2	U.S. POST OFFICE SIGN	300	7.50	24.6
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPE, TEXARKANA</p> <p>Ref Mon # 2: X303</p> <p>Ref Mon # 3: DQUA</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> G308A	<b>Date Monumented</b> 4/9/2003	<b>Monumented By</b> AHTD	<b>County</b> LITTLE RIVER	<b>Route</b> 32	<b>Job Number:</b> 030250
-------------------------	------------------------------------	------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	519,637.0262	
<b>Easting (M)</b>	177,501.8130	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,704,842.4768	
<b>Easting (SFT)</b>	582,353.8648	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	20	37.6790243
<b>Scale Factor</b>	0.999933267		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	85	16.70	54.8
MK # 2	24" WATER OAK	119	18.60	61.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: HOPE, TEXARKANA	
Ref Mon # 2: X303	
Ref Mon # 3: DQUA	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 43 18.4953972
<b>Longitude</b>	94 24 3.4867296
<b>Ellipsoid Height (M):</b>	99.511
<b>Geoid Height (M):</b>	-27.075

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND HIGHWAY 32 WEST, IN FORMAN, GO WEST ON HIGHWAY 32 FOR 0.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.80 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 7.10 METERS EAST OF A GRAVEL DRIVE, 24.5 METERS WEST OF 3rd STREET AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "G308A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	G308
<b>Geodetic Azimuth</b>	89 39 37
<b>Grid Azimuth</b>	91 00 14

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> GAYLOR	<b>Date Monumented</b> 1/1/1971	<b>Monumented By</b> CGS	<b>County</b> CRAWFORD	<b>Route</b> 71	<b>Job Number:</b> NA
--------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	159,562.0139	
<b>Easting (M)</b>	208,725.4910	
<b>Elevation (M)*</b>	636.879	
<b>Northing (SFT)</b>	523,496.3739	
<b>Easting (SFT)</b>	684,793.5484	
<b>Elevation (SFT)*</b>	2,089.494	

  

<b>Convergence Angle</b>	-1	13	50.8513910
<b>Scale Factor</b>	0.999940261		
<b>Elevation Adjust. Factor</b>	0.9999000629		
<b>Combined Adjust. Factor</b>	0.9998403299		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 14 KM (8.70 MI) NORTH-NORTHEAST OF MOUNTAINBURG, 4 KM (2.50 MI) SOUTH-SOUTHEAST OF WINSLOW, 0.15 KM (0.10 MI) NORTH OF A LOOKOUT TOWER, 0.08 KM (0.05 MI) SOUTH-SOUTHEAST OF STEEL ANTENNA TOWER ABOUT 100 M (328.1 FT) TALL, AT THE HIGHEST POINT IN THE VICINITY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 IN WINSLOW, GO SOUTHERLY ON HIGHWAY 71 FOR 7.0 KM (4.35 MI) TO THE TOP OF THE MOUNTAIN AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 35 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 49.5 M (162.4 FT) SOUTHEAST OF THE CORNER OF A HOUSE, 26.4 M (86.6 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 17.1 M (56.1 FT) NORTH OF THE NORTHEAST CORNER OF A 1 M (3.3 FT) SQUARE CONCRETE WELL CASING PROJECTING 1 M (3.3 FT) ABOVE GROUND, 12.5 M (41.0 FT) WEST OF AND ABOUT 1 M (3.3 FT) HIGHER THAN THE SOUTHBOUND LANES OF THE HIGHWAY CENTER AND 2.1 M (6.9 FT) WEST OF A FIBERGLASS WITNESS POST AT THE TOP OF A CUTBANK IN THE RIGHT-OF-WAY.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> GPS 47	<b>Date Monumented</b> 1/1/1987	<b>Monumented By</b> NGS	<b>County</b> TIPTON / TN	<b>Route</b> N/A	<b>Job Number:</b> NA
--------------------------	------------------------------------	-----------------------------	------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	82.860	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	271.850	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999869967
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RUNWAY CENTER	E	37.50	123.0
<b>MK # 2</b>	THE NORTHEAST CORNER OF THE PAPI	NE	20.40	66.9
<b>MK # 3</b>	CENTER OF THE CONNECTOR TAXIWAY	S	13.70	44.9

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> GRADY 1940	<b>Date Monumented</b> 1/1/1940	<b>Monumented By</b> USC&GS	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137,R20091
------------------------------	------------------------------------	--------------------------------	--------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,425.6490	
<b>Easting (M)</b>	428,419.2480	
<b>Elevation (M)*</b>	56.152	
<b>Northing (SFT)</b>	1,825,539.8168	
<b>Easting (SFT)</b>	1,405,572.1495	
<b>Elevation (SFT)*</b>	184.225	

  

<b>Convergence Angle</b>	0	10	20.4249166
<b>Scale Factor</b>	0.999918740		
<b>Elevation Adjust. Factor</b>	0.9999911880		
<b>Combined Adjust. Factor</b>	0.9999099287		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	4	35.9000076
<b>Longitude</b>	91	41	31.4739132
<b>Ellipsoid Height:</b>	29.424		
<b>Grid Northing (Meters)</b>	556,425.8620		
<b>Grid Easting (Meters)</b>	428,419.5593		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" CONCRETE CULVERT	195	21.00	68.9
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 J 112	
Ref Mon # 3 K 124	

<b>Vertical Determined By:</b>	1st Order by NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 4 35.8931244
<b>Longitude</b>	91 41 31.4860812
<b>Ellipsoid Height (M):</b>	30.282
<b>Geoid Height (M):</b>	-25.869

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT IN A VACANT LOT TO THE NORTHWEST OF THE JUNCTION OF U.S. HIGHWAY 65 AND GUM STREET. THE STATION IS 36.88 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 65, 48.60 METERS WEST OF THE CENTER OF GUM STREET AND 0.35 METERS SOUTH OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STANARD DISK SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> GRADY AZ	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137,R20091
----------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	556,577.9070	
<b>Easting (M)</b>	428,072.3690	
<b>Elevation (M)*</b>	56.872	
<b>Northing (SFT)</b>	1,826,039.3499	
<b>Easting (SFT)</b>	1,404,434.0973	
<b>Elevation (SFT)*</b>	186.588	

  

<b>Convergence Angle</b>	0	10	12.8620704
<b>Scale Factor</b>	0.999918758		
<b>Elevation Adjust. Factor</b>	0.9999910750		
<b>Combined Adjust. Factor</b>	0.9999098337		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	4	40.8751500
<b>Longitude</b>	91	41	44.9865816
<b>Ellipsoid Height:</b>	30.157		
<b>Grid Northing (Meters)</b>	556,578.1081		
<b>Grid Easting (Meters)</b>	428,072.6772		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    AHTD MON 1 Ref Mon # 2    J 112 Ref Mon # 3    K 124	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".</td> </tr> </table>	Comments	THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".
Comments			
THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".			

  

Location Description	
TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.0 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 12.90 METERS EAST OF THE EASTERMOST RAIL OF THE RAILROAD TRACK AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "GRADY AZ 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34    4    40.8686520
<b>Longitude</b>	91    41    44.9986272
<b>Ellipsoid Height (M):</b>	31.004
<b>Geoid Height (M):</b>	-25.867

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
GRASSY ROCK	5/11/1993	AHTD	CRAWFORD	n/a	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	146,857.1380	
<b>Easting (M)</b>	194,590.6110	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	481,813.7936	
<b>Easting (SFT)</b>	638,419.3629	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	19	11.3939405
<b>Scale Factor</b>	0.999936338		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JCT. OF HWY-282 &amp; HWY-64 ON THE EASTERN EDGE OF VAN BUREN, GO NORTHERLY ON HWY-282 FOR 10.54 KM. (6.55 MI.) TO THE JCT. OF HWY-60 NORTH AND HWY-282 TO RUDY, GO STRAIGHT ON HWY-60 FOR 3.86 KM. (2.40 MI.) TO THE END OF STATE MAINTANCE, CONTINUE AHEAD ON PAVED ROAD FOR 4.02 KM. (2.50 MI.) TO THE END OF THE ASPHALT. CONTINUE AHEAD ON GRAVEL ROAD FOR 1.609 KM. (1.0 MI.) TO THE JUNCTION OF THREE ROADS. "OLD HOBBTOWN WAY" TO THE LEFT, "OZARK ROAD" STRAIGHT AHEAD AND "OLD 88 ROAD" AT AN ANGLE TO THE RIGHT. GO RIGHT ON "OLD 88 RD." FOR 0.322 KM. (0.20 MI.) TO THE JCT. WITH "OLD 81 RD.", GO LEFT ON "OLD 88 RD." AND FOLLOW THIS MAIN GRAVEL ROAD FOR 5.150 KM. (3.20 MI.) TO A SMALL FRAME HOUSE ON THE LEFT AND "GRASSY 1935 " AZIMUTH MARK ON THE LEFT IN THE YARD NEAR THE GRAVEL ROAD. PASS THROUGH A METAL GATE JUST SOUTH OF THE AZ. MARK AND GO EASTERLY ACROSS THE PASTURE FOR 0.161 KM. (0.10 MI.) TO THE STATION MARK, A DRILL HOLE IN OUTCROPPING BEDROCK ABOUT 0.76 BY 0.91 METERS SQUARE. AND PROJECTS ABOUT 0.80 CM.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHWEST CORNER OF RUN DOWN BAR	SSW	39.00	128.0
<b>MK # 2</b>	GAP IN A NORTH-SOUTH FENCELINE	EAST	51.00	167.3
<b>MK # 3</b>			0.00	0.0

  

Area Reference Monuments (used for Processing)		Comments
<b>Ref Mon # 1</b>	GRASSY	<p>See Job R40116 File. THIS STATION WAS SET USING GRASSY 1935 AND IT'S AZIMUTH MARK. A RESECTION WAS DONE AND A COORDINATE WAS CALCULATED FROM EDM DISTANCES AND ANGLES.</p>
<b>Ref Mon # 2</b>	NONE	
<b>Ref Mon # 3</b>	NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 297	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOAA	<b>County</b> SEBASTIAN	<b>Route</b> 255	<b>Job Number:</b> R40117
-------------------------	------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	113,721.5613		
<b>Easting (M)</b>	198,424.8496		
<b>Elevation (M)*</b>	118.913		
<b>Northing (SFT)</b>	373,101.4890		
<b>Easting (SFT)</b>	650,998.8607		
<b>Elevation (SFT)*</b>	390.134		

  

<b>Convergence Angle</b>	-1	17	25.4738292
<b>Scale Factor</b>	0.999945124		
<b>Elevation Adjust. Factor</b>	0.9999813390		
<b>Combined Adjust. Factor</b>	0.9999264640		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN LAVACA, GO WEST ON STATE HIGHWAY 96 FOR 0.50 KM (0.30 MI) TO THE JUNCTION OF STATE HIGHWAY 255, GO RIGHT WEST ON STATE HIGHWAY 255 FOR 3.60 KM (2.25 MI) THE JUNCTION OF SEBASTIAN COUNTY ROAD 272 (HICKMAN BLUFF ROAD) AND THE STATION ON THE RIGHT. THE STATION IS 10.27 METERS NORTH OF THE CENTER OF STATE HIGHWAY 255, 9.54 METERS EAST OF THE CENTER OF COUNTY ROAD 272 AND 5.64 METERS NORTHEAST OF THE EAST END OF A CULVERT. THE STATION IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD 2.44 METERS LONG AND IS ENCASED IN A 5 INCH PVC PIPE. ACCESS IS THROUGH A 5 INCH LOGO CAP STAMPED "H 297 1984". THE SHOT DISTANCE IS 582.317 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    240006</p> <p><b>Ref Mon # 2</b>    650007</p> <p><b>Ref Mon # 3</b>    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON NGS ELEVATION SHEET</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 297A	<b>Date Monumented</b> 8/6/2000	<b>Monumented By</b> AHTD	<b>County</b> SEBASTIAN	<b>Route</b> 255	<b>Job Number:</b> R40117,C56008A
--------------------------	------------------------------------	------------------------------	----------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	113,691.9601	
<b>Easting (M)</b>	199,006.3772	
<b>Elevation (M)*</b>	119.805	
<b>Northing (SFT)</b>	373,004.3724	
<b>Easting (SFT)</b>	652,906.7559	
<b>Elevation (SFT)*</b>	393.060	

  

<b>Convergence Angle</b>	-1	17	12.0612173
<b>Scale Factor</b>	0.999945135		
<b>Elevation Adjust. Factor</b>	0.9999811990		
<b>Combined Adjust. Factor</b>	0.9999263351		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN LAVACA, GO WEST ON STATE HIGHWAY 96 FOR 0.50 KM (0.30 MI) TO THE JUNCTION OF STATE HIGHWAY 255, GO RIGHT WEST ON STATE HIGHWAY 255 FOR 3.02 KM (1.88 MI) THE STATION ON THE LEFT. THE STATION IS 20.70 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 9.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 255 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 297A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 582.317 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 297.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    240006</p> <p>Ref Mon # 2    650007</p> <p>Ref Mon # 3    GAYLOR</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT H 297</p>
---	--

  

<b>AZ Mark Station</b>	H 297
<b>Geodetic Azimuth</b>	271 37 38.25106
<b>Grid Azimuth</b>	272 54 50.35264

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 314	<b>Date Monumented</b> 1/2/1990	<b>Monumented By</b> NOAA	<b>County</b> CRITTENDEN	<b>Route</b> 63	<b>Job Number:</b> 001849
-------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	120,670.0613	
<b>Easting (M)</b>	556,085.8973	
<b>Elevation (M)*</b>	67.902	

  

<b>Northing (SFT)</b>	395,898.3594	
<b>Easting (SFT)</b>	1,824,425.1481	
<b>Elevation (SFT)*</b>	222.775	

  

<b>Convergence Angle</b>	1	0	0.1730589
<b>Scale Factor</b>	0.999940601		
<b>Elevation Adjust. Factor</b>	0.9999893441		
<b>Combined Adjust. Factor</b>	0.9999299457		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 9.40 METERS WEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.30 METERS SOUTH OF THE CENTER OF A PAVED CROSSOVER, 2.52 METERS SOUTH-SOUTHEAST OF A U.S. ARMY CORPS OF ENGINEERS WITNESS POST SET AT A YIELD SIGN AND 0.50 METERS EAST-NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "H 314 1990". THE SHOT DISTANCE IS 596.907 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					H 314A
MK # 2	NONE					159 46 11.16372
MK # 3	NONE					158 46 10.98036

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    W 15 OFFSET	
Ref Mon # 2    MANIPORT	
Ref Mon # 3    MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 314A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> CRITTENDEN	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	120,113.6981				
<b>Easting (M)</b>	556,302.0347				
<b>Elevation (M)*</b>	67.745				
<b>Northing (SFT)</b>	394,073.0245				
<b>Easting (SFT)</b>	1,825,134.2588				
<b>Elevation (SFT)*</b>	222.260				

  

<b>Convergence Angle</b>	1	0	4.9330666
<b>Scale Factor</b>	0.999940873		
<b>Elevation Adjust. Factor</b>	0.9999893687		
<b>Combined Adjust. Factor</b>	0.9999302423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 34.90 METERS NORTH-NORTHWEST OF THE CENTER OF A PAVED CROSSOVER, 14.45 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 11.15 METERS WEST-SOUTHWEST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 314. THE SHOT DISTANCE IS 596.907 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> W 15 OFFSET <b>Ref Mon # 2</b> MANIPORT <b>Ref Mon # 3</b> MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
5 1990 SUPERCE		NOAA	CRAIGHEAD	63	R00059,100293,100417

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,665.1140	
<b>Easting (M)</b>	510,518.4040	
<b>Elevation (M)*</b>	87.926	
<b>Northing (SFT)</b>	556,642.9615	
<b>Easting (SFT)</b>	1,674,925.7971	
<b>Elevation (SFT)*</b>	288.471	

  

<b>Convergence Angle</b>	0	42	43.3167121
<b>Scale Factor</b>	0.999947185		
<b>Elevation Adjust. Factor</b>	0.9999862017		
<b>Combined Adjust. Factor</b>	0.9999333875		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	51	23.2306956
<b>Longitude</b>	90	46	34.9128516
<b>Ellipsoid Height:</b>	59.293		
<b>Grid Northing (Meters)</b>	169,665.4022		
<b>Grid Easting (Meters)</b>	510,518.3856		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3	NONE			

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> NEWSPORT <b>Ref Mon # 2</b> P 315 <b>Ref Mon # 3</b> AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THIS STATION IS AN NGS BENCH MARK.</td> </tr> </table>	Comments	THIS STATION IS AN NGS BENCH MARK.
Comments			
THIS STATION IS AN NGS BENCH MARK.			

  

<b>Vertical Determined By:</b>	1st Order by NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 51 23.2213356
<b>Longitude</b>	90 46 34.9122648
<b>Ellipsoid Height (M):</b>	60.234
<b>Geoid Height (M):</b>	-27.692

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 315 A	<b>Date Monumented</b> 6/6/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 63	<b>Job Number:</b> 100417,R00059
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	169,288.1459	
<b>Easting (M)</b>	510,763.5660	
<b>Elevation (M)*</b>	87.472	
<b>Northing (SFT)</b>	555,406.1920	
<b>Easting (SFT)</b>	1,675,730.1328	
<b>Elevation (SFT)*</b>	286.981	

  

<b>Convergence Angle</b>	0	42	48.8934233
<b>Scale Factor</b>	0.999946904		
<b>Elevation Adjust. Factor</b>	0.9999862730		
<b>Combined Adjust. Factor</b>	0.9999331777		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35	51	10.9014768
<b>Longitude</b>	90	46	25.3290720
<b>Ellipsoid Height:</b>	58.841		
<b>Grid Northing (Meters)</b>	169,288.4419		
<b>Grid Easting (Meters)</b>	510,763.5511		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN TOP OF A CONCRETE POST	310	0.89	2.9
MK # 2	"X" CUT IN TOP OF A CONCRETE POST	313	5.97	19.6
MK # 3	"X" CUT IN TOP OF A CONCRETE POST	317	12.04	39.5

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    NEWSPORT Ref Mon # 2    P 315 Ref Mon # 3    AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.
Comments			
ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35    51    10.8918684
<b>Longitude</b>	90    46    25.3286256
<b>Ellipsoid Height (M):</b>	59.782
<b>Geoid Height (M):</b>	-27.690

  

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST EDGE OF JONESBORO GO SOUTHERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE LEFT IN THE MEDIAN. 9.89 METERS SOUTHWEST OF THE CENTER OF HWY-63 NORTH, 9.79 METERS NORTHEAST OF THE CENTER OF HWY-63 SOUTH AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 315 A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 349	<b>Date Monumented</b> 1/1/1983	<b>Monumented By</b> NGS	<b>County</b> TUNICA / MS	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	45,284.9419 0.0000
<b>Easting (M)</b>	542,319.8750 0.0000
<b>Elevation (M)*</b>	67.135
<b>Northing (SFT)</b>	148,572.3469
<b>Easting (SFT)</b>	1,779,261.1232
<b>Elevation (SFT)*</b>	220.259

  

<b>Convergence Angle</b>	0	54	15.2717401
<b>Scale Factor</b>	1.000045835		
<b>Elevation Adjust. Factor</b>	0.9999894644		
<b>Combined Adjust. Factor</b>	1.0000352990		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

Location Description
<p>THE STATION IS LOCATED ABOUT 7.6 KM (4.70 MI) NORTHWEST OF TUNICA, NEAR THE TOP OF THE MISSISSIPPI RIVER LEVEE AT MILEPOST 34/35, BETWEEN TWO METAL GUARD POSTS. OWNERSHIP--U.S. ARMY CORPS OF ENGINEERS. MAINTAINED BY YMD LEVEE BOARD, CLARKSDALE MS. HEAD OF OPERATIONS IS KEN WEILEND, PHONE 601-624-4397. NOTE--FOR ACCESS THROUGH LOCKED GATE, CONTACT MR. WEILEND 24-HOURS IN ADVANCE. HE WILL NOTIFY THE TUNICA FIELD OFFICE AND HAVE SOMEONE MEET THE OBSERVER AT THE LEVEE AND GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND STATE HIGHWAY 4 WEST NEAR THE EAST EDGE OF TUNICA, GO NORTH FOR 1.7 KM (1.05 MI) ON HIGHWAY 61 TO THE JUNCTION OF MHOON LANDING PKY ON THE LEFT. TURN LEFT, WESTERLY FOR 7.89 KM (4.90 MI) ALONG THE PARKWAY TO THE TOP OF THE LEVEE. TURN LEFT, SOUTHWEST FOR 0.51 KM (0.30 MI) PASSING THROUGH THE GATE AND ALONG THE GRAVEL LEVEE ROAD TO MILEPOST 34/35 AND THE STATION. THE STATION IS THE TOP CENTER OF A STAINLESS STEEL DATUM POINT RECESSED 5 CM BELOW GROUND CRIMPED TO THE TOP OF A STAINLESS STEEL ROD DRIVEN TO A DEPTH OF 31.6 M (103.7 FT) ENCASED IN A 5-INCH PVC PIPE WITH NGS LOGO CAP SURROUNDED BY</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LEVEE ROAD	SE	4.10	13.5
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 41	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> CGS	<b>County</b> RANDOLPH	<b>Route</b> 115	<b>Job Number:</b> 100877
------------------------	------------------------------------	-----------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD83 (2011)		
<b>Northing (M)</b>	218,654.0275	0.0020	
<b>Easting (M)</b>	492,561.6562	0.0020	
<b>Elevation (M)*</b>	112.758		
<b>Northing (SFT)</b>	717,367.4219		
<b>Easting (SFT)</b>	1,616,012.7004		
<b>Elevation (SFT)*</b>	369.940		

  

<b>Convergence Angle</b>	0	35	58.7600327
<b>Scale Factor</b>	1.000013815		
<b>Elevation Adjust. Factor</b>	0.9999823049		
<b>Combined Adjust. Factor</b>	0.9999961197		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> MODP <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> ARBT	Elevation from NGS datasheet.     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H37 A	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOS	<b>County</b> WASHINGTON	<b>Route</b> 265	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	-----------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	207,311.3690		
<b>Easting (M)</b>	209,436.1260		
<b>Elevation (M)*</b>	407.380		
<b>Northing (SFT)</b>	680,154.0498		
<b>Easting (SFT)</b>	687,125.0234		
<b>Elevation (SFT)*</b>	1,336.546		

  

<b>Convergence Angle</b>	-1	13	58.1911086
<b>Scale Factor</b>	0.999990523		
<b>Elevation Adjust. Factor</b>	0.9999360729		
<b>Combined Adjust. Factor</b>	0.9999265965		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST EDGE OF THE RUNWAY	W	30.20	99.1
<b>MK # 2</b>	CENTER OF THE PARALLEL TAXIWAY	E	19.00	62.3
<b>MK # 3</b>	CENTER OF A STEEL DRAIN	NW	7.70	25.3

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Level		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	36	11	0.4292772
<b>Longitude</b>	94	7	7.0798404
<b>Ellipsoid Height (M):</b>	376.360		
<b>Geoid Height (M):</b>	-28.020		

Location Description
<p>THE STATION IS LOCATED ON THE NORTHEAST SIDE OF SPRINGDALE, AT THE SPRINGDALE MUNICIPAL AIRPORT, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF RUNWAY END 18 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY. OWNERSHIP--CITY OF SPRINGDALE, AIRPORT MANAGER IS VERL THOMPSON, 802 AIRPORT ROAD, SPRINGDALE AR 72764, PHONE 501-751-4462. CALL IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAYS 71 (TO BE RENAMED INTERSTATE HIGHWAY 540 IN APPROXIMATELY 1996) AND 412 (EXIT 52) IN NORTHERN SPRINGDALE, GO EAST ON HIGHWAY 412 FOR 4.15 KM (2.55 MI) TO A PAVED CROSSROAD, U.S. HIGHWAY 71B. TURN RIGHT, SOUTH ON HIGHWAYS 71B AND 412 FOR 0.76 KM (0.45 MI) TO A PAVED CROSSROAD (WHERE HIGHWAY 412 TURNS EAST AND 71B CONTINUES SOUTH). TURN LEFT, EAST ON HIGHWAY 412 FOR 1.34 KM (0.85 MI) TO A PAVED CROSSROAD, POWELL STREET. TURN LEFT, NORTH ON POWELL STREET FOR 0.08 KM (0.05 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, EAST ON THE ENTRANCE ROAD FOR 0.4 KM (0.25 MI) TO THE TERMINAL ON THE RIGHT. CONTINUE AHEAD, NORTH, THEN WEST FOR 0.08 KM (0.05 MI) TO A GATE IN THE PERIMETER FENCE ON</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HC 65 + 19	<b>Date Monumented</b>	<b>Monumented By</b> S. ARMY C.O.	<b>County</b> CRAIGHEAD	<b>Route</b> 1	<b>Job Number:</b> 001853,100208,100672
------------------------------	------------------------	--------------------------------------	----------------------------	-------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	163,155.6710
<b>Easting (M)</b>	520,236.4620
<b>Elevation (M)*</b>	78.805
<b>Northing (SFT)</b>	535,286.5639
<b>Easting (SFT)</b>	1,706,809.1257
<b>Elevation (SFT)*</b>	258.546

  

<b>Convergence Angle</b>	0	46	26.6472824
<b>Scale Factor</b>	0.999942784		
<b>Elevation Adjust. Factor</b>	0.9999876331		
<b>Combined Adjust. Factor</b>	0.9999304178		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	175	9.68	31.8
MK # 2	CMP	340	23.03	75.6
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 NEWSPORT	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HEBEP0RT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> CLEBURNE	<b>Route</b> 5	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	---------------------------	-------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	131,029.5400	
<b>Easting (M)</b>	399,278.6000	
<b>Elevation (M)*</b>	192.470	
<b>Northing (SFT)</b>	429,886.0825	
<b>Easting (SFT)</b>	1,309,966.5402	
<b>Elevation (SFT)*</b>	631.462	

  

<b>Convergence Angle</b>	0	0	16.6603213
<b>Scale Factor</b>	0.999936674		
<b>Elevation Adjust. Factor</b>	0.9999697961		
<b>Combined Adjust. Factor</b>	0.9999064720		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 30 51.8526360
<b>Longitude</b>	92 0 28.6309440
<b>Ellipsoid Height (M):</b>	164.990
<b>Geoid Height (M):</b>	-27.460

  

Location Description
<p>THE STATION IS LOCATED ABOUT 42 KM (26.10 MI) NORTHWEST OF SEARCY, 3 KM (1.85 MI) NORTH-NORTHEAST OF HEBER SPRINGS, AT THE HEBER SPRINGS MUNICIPAL AIRPORT, NEAR THE NORTHEAST END OF THE AIRFIELD, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, IN THE WEST QUADRANT OF THE JUNCTION OF THE RUNWAY END AND THE CONNECTOR TAXIWAY TO THE RUNWAY END. OWNERSHIP--CITY OF HEBER SPRINGS, 2111 AIRPORT ROAD, HEBER SPRINGS AR 72543. AIRPORT MANAGER IS DAN WORLEY, PHONE 501-362-3294. CONTACT HIM FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 (BYPASS ROAD) AND 25B (HEBER SPRINGS ROAD) ABOUT 4 KM (2.50 MI) NORTHEAST OF HEBER SPRINGS, GO SOUTHWESTERLY ON HIGHWAY 25B FOR 1.45 KM (0.90 MI) TO A PAVED ROAD LEFT (COUNTY HIGHWAY 980/CHANELLE DRIVE). TURN LEFT, SOUTH ON THE ROAD FOR 0.38 KM (0.25 MI) TO A GATE AT THE APRON. PASS THROUGH THE GATE, THEN TURN RIGHT, SOUTHEAST ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN LEFT, NORTHEAST ALONG THE TAXIWAY FOR 0.42 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET FLUSH IN THE TOP OF A 1.3 M (4.3 FT) X 2.2 M</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONNECTOR TAXIWAY CENTER	SW	56.00	183.7
<b>MK # 2</b>	CENTER OF THE PARALLEL TAXIWAY	S-SE	34.90	114.5
<b>MK # 3</b>	RUNWAY CENTER	N-NW	27.10	88.9

  

<b>AZ Mark Station</b>	BEP0RT AZ MK (FG1948)
<b>Geodetic Azimuth</b>	239 20 31.1
<b>Grid Azimuth</b>	239 20 47.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HILL	<b>Date Monumented</b> 1/1/1978	<b>Monumented By</b> DMA	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	648,631.3911	
<b>Easting (M)</b>	387,361.1480	
<b>Elevation (M)*</b>	116.300	
<b>Northing (SFT)</b>	2,128,051.4890	
<b>Easting (SFT)</b>	1,270,867.3664	
<b>Elevation (SFT)*</b>	381.561	

  

<b>Convergence Angle</b>	0	4	38.6406491
<b>Scale Factor</b>	1.000034631		
<b>Elevation Adjust. Factor</b>	0.9999817491		
<b>Combined Adjust. Factor</b>	1.0000163794		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LARGE LONE OAK TREE	S-SW	84.50	277.2
<b>MK # 2</b>	SOUTH EDGE OF THIRD STREET	S	53.50	175.5
<b>MK # 3</b>	A LARGE ROCK FORMATION	E	1.00	3.3

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 54 29.4335388
<b>Longitude</b>	92 8 17.8475712
<b>Ellipsoid Height (M):</b>	89.210
<b>Geoid Height (M):</b>	-27.050

Location Description
<p>THE STATION IS LOCATED ON A SMALL RIDGE ON LITTLE ROCK AIR FORCE BASE, NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67/167 AND VANDENBERG BOULEVARD, GO WEST AND NORTHWESTERLY ON VANDENBERG BOULEVARD FOR 1.8 MI (2.9 KM) TO A SIDE ROAD RIGHT, THOMAS AVENUE. TURN RIGHT AND GO NORTH ON THOMAS AVENUE FOR 0.9 MI (1.4 KM) TO A SIDE ROAD, THIRD STREET. TURN RIGHT AND GO EAST ON THIRD STREET FOR 0.15 MI (0.24 KM) TO A LARGE LONE OAK TREE AND THE STATION ON THE LEFT SIDE OF THE ROAD. THE STATION IS FLUSH WITH THE GROUND.</p>

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
HINDSVILLE AZ	1/1/1971	USC&GS	MADISON	412	9951

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	204,515.2150	
<b>Easting (M)</b>	231,247.3670	
<b>Elevation (M)*</b>	436.578	
<b>Northing (SFT)</b>	670,980.3345	
<b>Easting (SFT)</b>	758,684.0699	
<b>Elevation (SFT)*</b>	1,432.340	

  

<b>Convergence Angle</b>	-1	5	29.1025643
<b>Scale Factor</b>	0.999986723		
<b>Elevation Adjust. Factor</b>	0.9999314914		
<b>Combined Adjust. Factor</b>	0.9999182153		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO WEST ON HWY. 412 FOR 3.057 KM (1.90 MILES) TO THE STATION ON THE LEFT NEAR A FENCE CORNER. THE STATION IS 12.4 METERS SOUTH OF THE CENTERLINE OF HWY. 412, 3.23 METERS EAST OF THE CENTER OF COUNTY ROAD NO. 444 AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&amp;GS CAP STAMPED "HINDSVILLE 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST THAT PROJECTS 2 CENTIMETERS ABOVE THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	23	1.10	3.6
MK # 2	POWER POLE	172	11.06	36.3
MK # 3	2" PIPE CORNER FENCE POST	273	7.40	24.3

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="PRICE"/></p> <p>Ref Mon # 2 <input type="text" value="HUNTSVILLE"/></p> <p>Ref Mon # 3 <input type="text" value="NONE"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: 9948</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
HINDSVILLE NO.	1/1/1971	USC&GS	MADISON	412	9951

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	204,162.4269	
<b>Easting (M)</b>	232,424.2520	
<b>Elevation (M)*</b>	444.614	
<b>Northing (SFT)</b>	669,822.8956	
<b>Easting (SFT)</b>	762,545.2334	
<b>Elevation (SFT)*</b>	1,458.704	

  

<b>Convergence Angle</b>	-1	5	1.5521141
<b>Scale Factor</b>	0.999986201		
<b>Elevation Adjust. Factor</b>	0.9999302304		
<b>Combined Adjust. Factor</b>	0.9999164324		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" WALNUT TREE	185	18.60	61.0
MK # 2	8" CROSS BRACE POST	359	20.70	67.9
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	PRICE
Ref Mon # 2	HUNTSVILLE
Ref Mon # 3	NONE
Cross Reference Job: 9948	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NGVD 29
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 9 33.3628560
<b>Longitude</b>	93 51 44.8598736
<b>Ellipsoid Height (M):</b>	415.913
<b>Geoid Height (M):</b>	-28.544

Location Description
<p>FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO NORTHERLY ON HWY. 412 FOR 1.77 KM (1.10 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.09 METERS WEST OF THE CENTERLINE OF HWY. 412 AND 0.51 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD USC&amp;GS CAP STAMPED "HINDSVILLE NO 2 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST AND IS FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HOPE 2	<b>Date Monumented</b> 1/2/1997	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	515,514.5227	
<b>Easting (M)</b>	251,417.3333	
<b>Elevation (M)*</b>	106.954	
<b>Northing (SFT)</b>	1,691,317.2299	
<b>Easting (SFT)</b>	824,858.3677	
<b>Elevation (SFT)*</b>	350.899	

  

<b>Convergence Angle</b>	0	53	49.4915672
<b>Scale Factor</b>	0.999935638		
<b>Elevation Adjust. Factor</b>	0.9999832157		
<b>Combined Adjust. Factor</b>	0.9999188548		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.89 KM (0.55 MI) TO THE JUNCTION OF COUNTY ROAD 221 AND THE STATION ON THE RIGHT. THE STATION IS 27.34 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 29, 24.17 METERS EAST OF A UTILITY POLE, 13.32 METERS EAST-SOUTHEAST OF A UTILITY POLE AND 11.58 METERS SOUTH OF THE CENTER OF COUNTY ROAD 221. THE STATION MARK IS A PINCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE2 1997. THE SHOT DISTANCE IS 248.939 METERS.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: HOPE 1</p> <p>Ref Mon # 2: HOPE 2</p> <p>Ref Mon # 3: HOPEPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HOPE 1	<b>Date Monumented</b> 1/2/1997	<b>Monumented By</b> AHTD	<b>County</b> HEMPSTEAD	<b>Route</b> 29	<b>Job Number:</b> 030238
--------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	515,363.5564	0.0000	
<b>Easting (M)</b>	251,614.8360	0.0000	
<b>Elevation (M)*</b>	108.036		
<b>Northing (SFT)</b>	1,690,821.9346		
<b>Easting (SFT)</b>	825,506.3411		
<b>Elevation (SFT)*</b>	354.449		

  

<b>Convergence Angle</b>	0	53	45.1481812
<b>Scale Factor</b>	0.999935774		
<b>Elevation Adjust. Factor</b>	0.9999830459		
<b>Combined Adjust. Factor</b>	0.9999188210		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE TO AHTD DISTRICT 3 ON THE RIGHT. TURN RIGHT, EAST ON A PAVED ROAD FOR 0.04 KM (0.02 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.02 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.59 METERS NORTH OF THE NORTH WALL OF THE RESIDENT ENGINEER BRICK BUILDING, 4.38 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK 3.39 METERS EAST OF A BRICK FENCE AND FIBERGLASS WITNESS POST. THE STATION MARK IS A PUNCH HOLE ON TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE1 1997". THE SHOT DISTANCE IS 248.939 METERS.</p>			

  

Location Reference Marks							
Description			Azimuth	Distance		AZ Mark Station	
				Meters	Feet		
MK # 1	NONE					AHTD HOPE 2	
MK # 2	NONE						
MK # 3	NONE						

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	HOPE 1	
Ref Mon # 2	HOPE 2	
Ref Mon # 3	HOPEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> HOPEPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> HEMPSTEAD	<b>Route</b> 278	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	----------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	518,541.1701	
<b>Easting (M)</b>	246,593.2070	
<b>Elevation (M)*</b>	106.270	
<b>Northing (SFT)</b>	1,701,247.1556	
<b>Easting (SFT)</b>	809,031.2133	
<b>Elevation (SFT)*</b>	348.654	

  

<b>Convergence Angle</b>	0	55	35.3911854
<b>Scale Factor</b>	0.999933035		
<b>Elevation Adjust. Factor</b>	0.9999833230		
<b>Combined Adjust. Factor</b>	0.9999163592		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	THE RUNWAY CENTER	E-NE	53.60	175.9
<b>MK # 2</b>	THE TAXIWAY CENTER	SW	27.30	89.6
<b>MK # 3</b>	TAXIWAY LIGHT AT THE JUNCTION OF THE RUNWAY	E	32.40	106.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 43 27.3603900
<b>Longitude</b>	93 39 19.3473036
<b>Ellipsoid Height (M):</b>	70.270
<b>Geoid Height (M):</b>	-26.960

Location Description
<p>THE STATION IS LOCATED ABOUT 7 KM (4.35 MI) NORTHWEST OF HOPE, AT THE HOPE MUNICIPAL AIRPORT, ADJACENT TO THE NORTH END OF THE APRON, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF RUNWAY 16-34 AND THE CONNECTOR TAXIWAY FOR RUNWAY END 16. OWNERSHIP--CITY OF HOPE, CITY HALL, HOPE AR 71801. AIRPORT MANAGER IS DEAN MEDLEN, 153 AIRPORT ROAD, PHONE 501-777-3444 OR 777-8918. CALL IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAY 4 ON THE NORTHWEST SIDE OF HOPE, GO NORTHWEST ON HIGHWAY 4 FOR 6.3 KM (3.90 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTHWEST ON THE ENTRANCE ROAD FOR 0.18 KM (0.10 MI) TO THE T-JUNCTION OF A PAVED ROAD RIGHT AND A GRAVEL ROAD LEFT. TURN RIGHT, NORTH-NORTHWEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO A GATE ON THE NORTHEAST SIDE OF A PARKING LOT AND HANGAR (AIRPORT OFFICE IS LOCATED IN THE SOUTHWEST CORNER OF THE HANGAR). CONTINUE AHEAD, NORTH-NORTHWEST, PASSING THROUGH THE GATE, THEN WEST-SOUTHWEST AROUND THE HANGAR FOR 0.08 KM (0.05 MI) TO THE APRON AND A CONNECTOR TAXIWAY ON THE RIGHT. TURN RIGHT, NORTHWEST ACROSS</p>

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> J 112	<b>Date Monumented</b> 1/1/1954	<b>Monumented By</b> CGS	<b>County</b> JEFFERSON	<b>Route</b> 11	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	----------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	566,528.5349	
<b>Easting (M)</b>	441,475.0940	
<b>Elevation (M)*</b>	54.865	
<b>Northing (SFT)</b>	1,858,685.7016	
<b>Easting (SFT)</b>	1,448,406.2042	
<b>Elevation (SFT)*</b>	180.003	

  

<b>Convergence Angle</b>	0	15	6.4152025
<b>Scale Factor</b>	0.999921148		
<b>Elevation Adjust. Factor</b>	0.9999913900		
<b>Combined Adjust. Factor</b>	0.9999125386		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 24 KM (14.90 MI) SOUTHWEST OF DEWITT, 17 KM (10.55 MI) WEST-NORTHWEST OF GILLET, 1.8 KM (1.10 MI) NORTHEAST OF REYDELL, IN GRASS ADJACENT TO TWO CULTIVATED FIELDS AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 88 WEST AND 11 EAST, AND A GRAVEL ROAD LEADING SOUTH IN THE SMALL TOWN OF REYDELL, GO NORTHEAST ON HIGHWAY 11 FOR 1.82 KM (1.15 MI) TO THE STATION ON THE RIGHT, NEAR THE START OF A CURVE IN THE HIGHWAY. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST PROJECTING 20 CM ABOVE THE GROUND. IT IS 14.7 M (48.2 FT) SOUTHEAST OF AND ABOUT 1.5 M (4.9 FT) LOWER THAN THE HIGHWAY CENTER, 0.4 M (1.3 FT) NORTHEAST OF A STEEL PIPE PROJECTING 1 M (3.3 FT) ABOVE GROUND AND 0.95 M (3.12 FT) WEST-NORTHWEST OF A UTILITY BRACE POLE AND A FIBERGLASS WITNESS POST.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> J 12	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> CGS	<b>County</b> ASHLEY	<b>Route</b> 82	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	452,761.6330	
<b>Easting (M)</b>	395,656.0100	
<b>Elevation (M)*</b>	35.335	
<b>Northing (SFT)</b>	1,485,435.4576	
<b>Easting (SFT)</b>	1,298,081.4261	
<b>Elevation (SFT)*</b>	115.928	

  

<b>Convergence Angle</b>	0	1	33.8053629
<b>Scale Factor</b>	1.000038695		
<b>Elevation Adjust. Factor</b>	0.9999944548		
<b>Combined Adjust. Factor</b>	1.0000331496		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) WEST OF WEST CROSSETT, ALONG THE NORTH SIDE OF THE HIGHWAY, ABOUT 0.08 KM (0.05 MI) EAST OF A CURVE TO THE NORTH IN THE HIGHWAY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 169 (HANCOCK ROAD) AT THE CITY LIMITS OF CROSSETT AND WEST CROSSETT, GO NORTHWEST, THEN WEST ON HIGHWAY 82 FOR 6.28 KM (3.90 MI) TO THE JUNCTION OF RAMSOUR ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 25 CM SQUARE CONCRETE POST PROJECTING 5 CM ABOVE GROUND. IT IS 41.8 M (137.1 FT) WEST OF THE CENTER OF A GRAVEL DRIVE TO A HOUSE, 14.8 M (48.6 FT) NORTH OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 6.5 M (21.3 FT) WEST OF THE EXTENDED CENTER OF RAMSOUR ROAD, 4.0 M (13.1 FT) EAST-NORTHEAST OF A STEEL TELEPHONE CABLE JUNCTION BOX NUMBER 9A+B 47, 3.0 M (9.8 FT) EAST-NORTHEAST OF A POWER POLE WITH A STEEL JUNCTION BOX, 0.9 M (3.0 FT) WEST-NORTHWEST OF THE NORTH 1 OF 2 POWER POLES THAT ARE BRACED AT THE TOP AND 0.3 M (1.0 FT) NORTH OF A STEEL WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> J 192 X	<b>Date Monumented</b> 1/1/1959	<b>Monumented By</b> AHTD	<b>County</b> CLARK	<b>Route</b> CR 9	<b>Job Number:</b> 070344
---------------------------	------------------------------------	------------------------------	------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	548,147.8241	
<b>Easting (M)</b>	298,556.3480	
<b>Elevation (M)*</b>	59.464	
<b>Northing (SFT)</b>	1,798,381.6529	
<b>Easting (SFT)</b>	979,513.6184	
<b>Elevation (SFT)*</b>	195.090	

  

<b>Convergence Angle</b>	0	36	52.6149569
<b>Scale Factor</b>	0.999918676		
<b>Elevation Adjust. Factor</b>	0.9999906683		
<b>Combined Adjust. Factor</b>	0.9999093451		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	185	21.09	69.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARCM <b>Ref Mon # 3</b> G 23, G23A	

  

**Vertical Determined By:** 3rd Order - 3 Wire Level

**Elevation Datum:** NAVD 88

**Geoid Datum:**

**Latitude**    33    59    50.9420796

**Longitude**    93    5    53.2817124

**Ellipsoid Height (M):**    32.851   

**Geoid Height (M):**    -26.612

  

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.0 MILES TO THE MARK ON THE LEFT, 28 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), WEST 37 FEET FROM C/L HUDMAN ROAD, AND WEST 117.5 FROM C/L RAIL ROAD TRACKS. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "J 192 X 1959" SET IN THE TOP OF A 1.6 FOOT X 1.6 FOOT CONCRETE BASE OF AN OLD SIGN THAT PROJECTS ABOUT 2 FOOT ABOVE THE GROUND.

  

<b>AZ Mark Station</b>	100020
<b>Geodetic Azimuth</b>	88 29 01
<b>Grid Azimuth</b>	89 05 53

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> J 26	<b>Date Monumented</b> 1/2/1932	<b>Monumented By</b> USC&GS	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
------------------------	------------------------------------	--------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 240,803.4161		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 226,777.5780		<b>Latitude</b> 36 29 18.3181272
<b>Elevation (M)*</b> 474.689		<b>Longitude</b> 93 55 59.5116696
<b>Northing (SFT)</b> 790,035.8743		<b>Ellipsoid Height (M):</b> 446.499
<b>Easting (SFT)</b> 744,019.4372		<b>Geoid Height (M):</b> -28.190
<b>Elevation (SFT)*</b> 1,557.375		

  

<b>Convergence Angle</b> -1 7 29.7337721	<b>Location Description</b>
<b>Scale Factor</b> 1.000060393	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, STATE HIGHWAY 37 AND OLD HIGHWAY ROAD, LOCATED IN GATEWAY, GO SOUTH ON OLD HIGHWAY ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.3 METERS SOUTHEAST OF THE SOUTHEAST RAIL, 6.8 METERS NORTHWEST OF THE CENTER OF OLD HIGHWAY ROAD AND 0.9 METERS SOUTH OF A METAL USC&amp;GS WITNESS POST. THE STATION MARK IS USC&amp;GS BENCH MARK DISK STAMPED "J 26 1932 1556.837" SET IN TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 0.1 METERS ABOVE THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.</p>
<b>Elevation Adjust. Factor</b> 0.9999255114	
<b>Combined Adjust. Factor</b> 0.9999858999	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					J 26A
MK # 2	NONE					107 32 40.67289
MK # 3	NONE					108 40 10.62912

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	Elevation by NGS point J 26
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> J 26A	<b>Date Monumented</b> 9/28/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 240,511.7772		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 227,640.6960		<b>Latitude</b> 36 29 9.4075440
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 55 24.6143820
<b>Northing (SFT)</b> 789,079.0557		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 746,851.1835		<b>Geoid Height (M):</b> -28.192
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 7 9.4270709	<b>Location Description</b>  TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 37, LOCATED IN GATEWAY, GO SOUTHEAST ON U.S. HIGHWAY 62 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "J 26A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.
<b>Scale Factor</b> 1.000059711	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b> 		<b>Latitude</b> 	
<b>Longitude</b> 		<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 		<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	121	23.55	77.3
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> CONWAY CORS ARP	
<b>Ref Mon # 2</b> SALLISAW 1 CORS ARP	
<b>Ref Mon # 3</b> NEODESHA CORS ARP	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
NES TRI STATIC	1/1/1953	AHTD	LEE	1	110229

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	42,794.7069	
<b>Easting (M)</b>	512,908.8320	
<b>Elevation (M)*</b>	69.881	
<b>Northing (SFT)</b>	140,402.3009	
<b>Easting (SFT)</b>	1,682,768.3930	
<b>Elevation (SFT)*</b>	229.268	

  

<b>Convergence Angle</b>	0	43	1.9216705
<b>Scale Factor</b>	1.000050697		
<b>Elevation Adjust. Factor</b>	0.9999890335		
<b>Combined Adjust. Factor</b>	1.0000397300		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	182	17.35	56.9
MK # 2	CORRIGATED METAL PIPE	160	12.60	41.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEVATION BY 3 WIRE
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 124	<b>Date Monumented</b> 1/1/1957	<b>Monumented By</b> CGS	<b>County</b> JEFFERSON	<b>Route</b> 425	<b>Job Number:</b> 020197
-------------------------	------------------------------------	-----------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	567,777.4040	
<b>Easting (M)</b>	405,719.8730	
<b>Elevation (M)*</b>	62.170	
<b>Northing (SFT)</b>	1,862,783.0330	
<b>Easting (SFT)</b>	1,331,099.2833	
<b>Elevation (SFT)*</b>	203.969	

  

<b>Convergence Angle</b>	0	2	5.0219889
<b>Scale Factor</b>	0.999921656		
<b>Elevation Adjust. Factor</b>	0.9999902436		
<b>Combined Adjust. Factor</b>	0.9999119004		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 6 KM (3.70 MI) SOUTHEAST OF PINE BLUFF, AT GRIDER FIELD AIRPORT, ALONG THE WEST EDGE OF THE AIRFIELD, ADJACENT TO THE AIRPORT OFFICE AND TERMINAL AND NEAR THE EAST SIDE OF THE PARKING LOT FOR THE OFFICE. OWNERSHIP--CITY OF PINE BLUFF, GRIDER FIELD, 709 HANGAR ROW, PINE BLUFF AR 71601. AIRPORT MANAGER IS MIKE WEST, PHONE 501-534-4131. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 425 SOUTH AND 81 NORTH (ABOUT 9 KM (5.60 MI) SOUTHEAST OF PINE BLUFF, GO WEST-NORTHWEST ON HIGHWAY 65 FOR 2.82 KM (1.75 MI) TO A PAVED ROAD LEFT AT A CURVE IN THE HIGHWAY (COUNTY HIGHWAY 980/GRIDER FIELD ROAD). TURN LEFT, SOUTHERLY ON THE ROAD FOR 2.09 KM (1.30 MI) TO THE PAVED AIRPORT ENTRANCE ON THE LEFT (NORTH AIRPORT DRIVE). TURN LEFT, EAST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A PAVED T-JUNCTION (HANGAR ROW). TURN RIGHT, SOUTH ON THE ROAD FOR 0.16 KM (0.10 MI) TO A PAVED PARKING LOT ON THE LEFT. TURN LEFT, EAST THROUGH THE PARKING LOT FOR 0.08 KM (0.05 MI) TO A GATE AT THE APRON, THE AIRPORT OFFICE ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS SET FLUSH IN THE TOP OF THE WEST SIDE OF THE CONCRETE APRON WHICH HAS A 2 INCH</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 143	<b>Date Monumented</b> 2/23/1994	<b>Monumented By</b> AHTD	<b>County</b> MADISON	<b>Route</b> N/A	<b>Job Number:</b> R90018
-------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	165,250.2359		
<b>Easting (M)</b>	224,078.0250		
<b>Elevation (M)*</b>	699.901		
<b>Northing (SFT)</b>	542,158.4823		
<b>Easting (SFT)</b>	735,162.6537		
<b>Elevation (SFT)*</b>	2,296.259		

  

<b>Convergence Angle</b>	-1	7	57.9131300
<b>Scale Factor</b>	0.999943480		
<b>Elevation Adjust. Factor</b>	0.9998901748		
<b>Combined Adjust. Factor</b>	0.9998336610		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CENTER OF TELEPHONE BOX	35	8.70	28.5
<b>MK # 2</b>	POWER POLE	58	6.15	20.2
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> DENNIS	
<b>Ref Mon # 2</b> NELSON	
<b>Ref Mon # 3</b> BIEHL	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 183	<b>Date Monumented</b> 10/19/2004	<b>Monumented By</b> NGS	<b>County</b> CRAIGHEAD	<b>Route</b> CR202	<b>Job Number:</b> 100611, 100412
-------------------------	--------------------------------------	-----------------------------	----------------------------	-----------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	160,889.4599	
<b>Easting (M)</b>	506,953.2620	
<b>Elevation (M)*</b>	76.684	
<b>Northing (SFT)</b>	527,851.5030	
<b>Easting (SFT)</b>	1,663,229.1604	
<b>Elevation (SFT)*</b>	251.587	

  

<b>Convergence Angle</b>	0	41	18.1911078
<b>Scale Factor</b>	0.999941619		
<b>Elevation Adjust. Factor</b>	0.9999879659		
<b>Combined Adjust. Factor</b>	0.9999295856		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	2.20	7.2
MK # 2	C/L RAILROAD	110	7.55	24.8
MK # 3	SOUTHWEST CORNER SIGNAL BOX	28	30.20	99.1

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    BUTLER Ref Mon # 2    MEM2 Ref Mon # 3    BLMM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

  

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 226 SOUTH AND STATE HIGHWAY 49 SOUTH, WEST OF VALLEY VIEW, GO SOUTH ON HIGHWAY 49 1.7 MILES TO COUNTY ROAD 202 AND TURN RIGHT AND GO ACROSS THE RAILROAD TRACKS TO THE STATION ON THE LEFT, SOUTH OF THE CENTERLINE OF THE COUNTY ROAD 35.70 METERS AND EAST OF A WITNESS POST 0.30 METERS. THE STATION MARK IS A DISK SET IN THE TOP OF A CONCRETE MONUMENT.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 206	<b>Date Monumented</b> 5/15/1905	<b>Monumented By</b> CGS	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 50280
-------------------------	-------------------------------------	-----------------------------	------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	102,257.2176 0.0000
<b>Easting (M)</b>	413,113.0604 0.0000
<b>Elevation (M)*</b>	89.671 0.0000
<b>Northing (SFT)</b>	335,488.8881
<b>Easting (SFT)</b>	1,355,355.0990
<b>Elevation (SFT)*</b>	294.196

  

<b>Convergence Angle</b>	0 5 1.8659917
<b>Scale Factor</b>	0.999952352
<b>Elevation Adjust. Factor</b>	0.9999859279
<b>Combined Adjust. Factor</b>	0.9999382806

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	2nd Order - NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	35 15 17.8920000
<b>Longitude</b>	91 51 21.2400000
<b>Ellipsoid Height (M):</b>	204.173 0.0000
<b>Geoid Height (M):</b>	-89.993 0.0000

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, EAST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 0.45 MILES TO THE MARK ON THE LEFT, 68.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 3 INCH BRASS CAP STAMPED "K 206 1962" SET IN THE TOP OF A 11 INCH SQUARE CONCRETE MONUMENT PROJECTING 5 INCHES ABOVE THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N. END OF 24" CMP CULVERT	200	32.70	107.3
MK # 2	FENCE CORNER	3	14.20	46.6
MK # 3	CENTER OF CATTLE GUARD	72	26.00	85.3

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARBT <b>Ref Mon # 3</b> P777	<b>Comments</b> Lat Long & Elevation taken from NGS OPUS Projects
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 289	<b>Date Monumented</b>	<b>Monumented By</b> NOAA	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> R20091
-------------------------	------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	564,955.7200		
<b>Easting (M)</b>	418,548.7010		
<b>Elevation (M)*</b>	58.889		
<b>Northing (SFT)</b>	1,853,525.5580		
<b>Easting (SFT)</b>	1,373,188.5299		
<b>Elevation (SFT)*</b>	193.205		

  

<b>Convergence Angle</b>	0	6	45.3061285
<b>Scale Factor</b>	0.999920630		
<b>Elevation Adjust. Factor</b>	0.9999907585		
<b>Combined Adjust. Factor</b>	0.9999113892		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS REGULATOR VALVE	30	7.20	23.6
<b>MK # 2</b>	NORTH EAST CORNER OF THE CHURCH	170	17.85	58.6
<b>MK # 3</b>	18" CONCRETE PIPE	305	20.40	66.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TARRY 1940 <b>Ref Mon # 2</b> DIST2 1995 <b>Ref Mon # 3</b> NONE	THIS STATION IS A NOAA BENCH MARK.

  

Location Description	
FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.644 KM (0.40 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "LINWOOD BAPTIST CHURCH". THE STATION IS 24.8 METERS SOUTH OF THE CENTER OF HWY. 65, 29.6 METERS WEST OF THE EASTERN MOST DRIVEWAY TO THE CHURCH AND 1.60 METERS EAST OF THE EAST FACE OF A BRICK PLANTER SURROUNDING THE CHURCH SIGN. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN FLUSH WITH THE GROUND AND CAN BE REACHED THROUGH A 5" LOGO CAP.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 289 AZ	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> N/A	<b>Job Number:</b> R20091
----------------------------	-------------------------------------	------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	565,285.0960	
<b>Easting (M)</b>	418,696.9320	
<b>Elevation (M)*</b>	60.026	
<b>Northing (SFT)</b>	1,854,606.1858	
<b>Easting (SFT)</b>	1,373,674.8511	
<b>Elevation (SFT)*</b>	196.935	

  

<b>Convergence Angle</b>	0	6	48.5593602
<b>Scale Factor</b>	0.999920739		
<b>Elevation Adjust. Factor</b>	0.9999905801		
<b>Combined Adjust. Factor</b>	0.9999113198		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.434 KM (0.27 MILES) TO A GRAVEL FIELD ROAD RIGHT AND HWY. 199 TO THE LEFT, GO RIGHT AND NORTH ON THE GRAVEL FIELD ROAD FOR 0.354 KM (0.22 MILES) TO THE STATION ON THE LEFT IN THE SOUTHEAST CORNER OF THE "CHERRY HILL CEMETERY". THE STATION IS 5.70 METERS WEST OF THE CENTER OF THE GRAVEL FIELD ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "K 289 AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    TARRY 1940</p> <p>Ref Mon # 2    DIST2 1995</p> <p>Ref Mon # 3    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION " K 289 1984".</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> K 324	<b>Date Monumented</b> 11/6/2008	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> NA	<b>Job Number:</b> 100445
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,511.7689	
<b>Easting (M)</b>	530,116.8480	
<b>Elevation (M)*</b>	110.014	
<b>Northing (SFT)</b>	625,037.3618	
<b>Easting (SFT)</b>	1,739,225.0255	
<b>Elevation (SFT)*</b>	360.937	

  

<b>Convergence Angle</b>	0	50	24.9047573
<b>Scale Factor</b>	0.999967764		
<b>Elevation Adjust. Factor</b>	0.9999827356		
<b>Combined Adjust. Factor</b>	0.9999505001		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	14 inch pine tree	232	22.10	72.5
<b>MK # 2</b>	Power pole	22	87.50	287.1
<b>MK # 3</b>	Wooden "T" fence corner	318	35.51	116.5

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> ARPG, ARBT BLMM <b>Ref Mon # 2</b> 280012,280012A <b>Ref Mon # 3</b> 280006,280006A	<b>Comments</b> Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
---	---

  

Location Description	
To reach the station from the junction of highways 49 and 358 on the south side of Paragould go north on hwy-49 for 0.50 miles to a red light and "Pruetts chapel road" on the right. Turn west on Pruetts Chaple road and go 2.0 miles to "South rocking chair road", continue ahead on Pruetts chapel road to the top of the grade and the station on the left in a hay field. 51.7 feet south of the center of Pruetts chapel road and 1.0 feet north of a carsonite witness post. The station mark is a stainless steel rod driven to a refusal depth of 42.5 feet and is encased in a 6 inch pvc pipe and accessed through a standard logo cap.	

  

<b>AZ Mark Station</b>	L 324
<b>Geodetic Azimuth</b>	283 38 43
<b>Grid Azimuth</b>	282 48 18

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> KENNPORT	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> NGS	<b>County</b> MO / DUNKLIN	<b>Route</b> N/A	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	212,419.4210 0.0000
<b>Easting (M)</b>	576,633.0206 0.0000
<b>Elevation (M)*</b>	78.400
<b>Northing (SFT)</b>	696,912.7171
<b>Easting (SFT)</b>	1,891,836.8351
<b>Elevation (SFT)*</b>	257.217

  

<b>Convergence Angle</b>	1 8 36.2077932
<b>Scale Factor</b>	0.999999756
<b>Elevation Adjust. Factor</b>	0.9999876966
<b>Combined Adjust. Factor</b>	0.9999874526

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	36 13 55.4880000
<b>Longitude</b>	90 2 6.2520000
<b>Ellipsoid Height (M):</b>	163.789 0.0000
<b>Geoid Height (M):</b>	-93.461 0.0000

  

Location Description
<p>OWNERSHIP--CITY OF KENNETT, CITY HALL, KENNETT, MO. 63857. AIRPORT MANAGER JOHN MC LAIN, PHONE 573-888-1339 OR 573-888-2929. NOTE--THIS STATION IS THE PRIMARY AIRPORT CONTROL (PAC) STATION, AND IS A NEW MADRID FAULT SEISMIC ZONE STATION. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 AND 84 AND U.S. HIGHWAY 412 AT THE SOUTHEAST EDGE OF KENNETT, GO WEST, 0.32 KM (0.20 MI) ALONG HIGHWAYS 84 AND 412 (FIRST STREET) , TO FIRE STATION NO. 2 AND AIRPORT ROAD ON THE LEFT. TURN LEFT, SOUTH, 0.3 KM (0.20 MI) ALONG AIRPORT ROAD TO THE AIRPORT OFFICE AND PARKING AREA ON THE LEFT. TURN LEFT, EAST, PASSING THROUGH A GATE ONTO THE APRON. TURN RIGHT, SOUTH, 0.2 KM (0.10 MI) ACROSS APRON AND ALONG THE MAIN TAXIWAY CROSSING THE TURF RUNWAY TO THE STATION ON THE LEFT, IN LINE WITH THE TAXIWAY LIGHT AND WITNESS POST. THE STATION IS 48.5 M (159.1 FT) WEST OF THE RUNWAY CENTER, 12.65 M (41.50 FT) EAST OF THE MAIN TAXIWAY CENTER, 3.6 M (11.8 FT) EAST OF A SHORT WITNESS POST, 3.45 M (11.32 FT) EAST OF AND IN LINE WITH A TAXIWAY LIGHT, AND THE STATION IS ABOUT 0.1 M (0.3 FT) BELOW THE MAIN TAXIWAY LEVEL AND RECESSED ABOUT 5-CM BELOW THE GROUND SURFACE. BY R.G. HAYES. NOTE--THE DATUM POINT IS A</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b> NNPORT AZ MK (GE1112)
<b>Geodetic Azimuth</b> 177 37 49.6
<b>Grid Azimuth</b> 177 21 20.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 18	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> NGS	<b>County</b> BOONE	<b>Route</b> 7	<b>Job Number:</b> 090225
------------------------	------------------------------------	-----------------------------	------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	203,426.0800	
<b>Easting (M)</b>	299,032.8660	
<b>Elevation (M)*</b>	370.627	
<b>Northing (SFT)</b>	667,407.0641	
<b>Easting (SFT)</b>	981,076.9945	
<b>Elevation (SFT)*</b>	1,215.965	

  

<b>Convergence Angle</b>	0	39	10.7322799
<b>Scale Factor</b>	0.999986633		
<b>Elevation Adjust. Factor</b>	0.9999418399		
<b>Combined Adjust. Factor</b>	0.9999284737		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43, SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 7 FOR 4.2 MILES TO THE STATION ON THE RIGHT, WEST 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD BRASS</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARP 2</p> <p>Ref Mon # 2    W.H. PHILLIPS</p> <p>Ref Mon # 3    ARHR</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 28	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> USC & GS	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 040373,040748
------------------------	------------------------------------	----------------------------------	---------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	126,074.9075    0.0010
<b>Easting (M)</b>	191,712.1679    0.0010
<b>Elevation (M)*</b>	139.454
<b>Northing (SFT)</b>	413,630.7590
<b>Easting (SFT)</b>	628,975.6709
<b>Elevation (SFT)*</b>	457.525

  

<b>Convergence Angle</b>	-1	20	6.7516050
<b>Scale Factor</b>	0.999938753		
<b>Elevation Adjust. Factor</b>	0.9999781156		
<b>Combined Adjust. Factor</b>	0.9999168699		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>DESCRIBED BY COAST &amp; GEODETIC SURVEY 1932, ABOUT 3.9 MILES EAST ALONG THE MISSOURI PACIFIC RAILROAD FROM VAN BUREN, CRAWFORD COUNTY, AT BOX SPRINGS SIDING, ABOUT 6 POLES WEST OF MILEPOST 494, ABOUT 15 RAILS WEST OF A ROAD CROSSING, AND 40 FEET SOUTH OF THE TRACK. A STANDARD DISK, STAMPED 457.243 L 28 1932 AND SET IN THE TOP OF A CONCRETE POST. UPDATED TO REACH NOTES BY AHTD STATES A FASTER WAY TO REACH THE POINT DESCRIBED IS TO TURN SOUTH ON SHIBLEY ROAD OFF OF HWY. 64 AND TRAVEL SOUTH 0.5 MILES TO THE RAILROAD CROSSING OF MISSOURI PACIFIC RAILROAD. THE POINT IS SOUTHWEST OF THE CROSSING, SOUTH OF THE RAILROAD TRACK (40 FEET) IN A FIELD WITH A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARFY</p> <p>Ref Mon # 2    ARHR</p> <p>Ref Mon # 3    OKHV</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 298	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NOAA	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 001747
-------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	104,884.3391	
<b>Easting (M)</b>	185,697.6820	
<b>Elevation (M)*</b>	151.318	
<b>Northing (SFT)</b>	344,108.0359	
<b>Easting (SFT)</b>	609,243.1450	
<b>Elevation (SFT)*</b>	496.449	

  

<b>Convergence Angle</b>	-1	22	13.8031694
<b>Scale Factor</b>	0.999952286		
<b>Elevation Adjust. Factor</b>	0.9999762538		
<b>Combined Adjust. Factor</b>	0.9999285410		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-540, US HIGHWAY 71B AND US HIGHWAY 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO SOUTHEAST ON US HIGHWAY 71 FOR 7.61 KM (4.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.815 METER SOUTH-SOUTHEAST OF THE CENTER OF TREECE ROAD, 18.090 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF US HIGHWAY 71, 5.068 METERS SOUTH-SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 1.10 METERS EAST OF AN AHTD WITNESS POST. THE STATION IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD 1.5 METERS LONG AND IS ENCASED IN A 5 INCH PVC PIPE . ACCESS IS THROUGH A 5 INCH LOGO CAP STAMPED "L 289 1985"Used as BM 903 on Job 001747</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN CORNER POST	293	15.80	51.9
<b>MK # 2</b>	SOUTHEAST END OF A 0.67 METER CMP	312	27.44	90.0
<b>MK # 3</b>	SOUTHWEST END OF A 0.67 METER RCP	328	19.18	62.9

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  THE STATION IS A NGS BENCH MARK WITH A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD. MONUMENTED BY NATIONAL GEODETIC SURVEY IN 1985, VERT DATUM 88, VERT ORDER FIRST ELEV. =151.318 METERS
<b>Ref Mon # 1</b>	FS 2	
<b>Ref Mon # 2</b>	Q 299	
<b>Ref Mon # 3</b>	GAYLOR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 314	<b>Date Monumented</b> 1/2/1990	<b>Monumented By</b> NOAA	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
-------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,637.9098	
<b>Easting (M)</b>	546,878.1292	
<b>Elevation (M)*</b>	66.504	
<b>Northing (SFT)</b>	428,601.2091	
<b>Easting (SFT)</b>	1,794,215.9956	
<b>Elevation (SFT)*</b>	218.189	

  

<b>Convergence Angle</b>	0	56	31.6123621
<b>Scale Factor</b>	0.999937011		
<b>Elevation Adjust. Factor</b>	0.9999895635		
<b>Combined Adjust. Factor</b>	0.9999265751		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 2.82 KM (1.75 MI) TO THE STATION ON LEFT SET IN THE MEDIAN. THE STATION IS 12.2 METERS SOUTHEAST OF THE CENTER OF A PAVED CROSSOVER, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STAINLESS STEEL ROD WITH A PUNCH MARK IN TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "L 314 1990". THE SHOT DISTANCE IS 625.073 METERS.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					L 315A
MK # 2	NONE					138 52 32.54013
MK # 3	NONE					137 56 00.91785

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    W 15 OFFSET	
Ref Mon # 2    MANIPORT	
Ref Mon # 3    MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 314A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	130,173.9054	
<b>Easting (M)</b>	547,296.8957	
<b>Elevation (M)*</b>	65.991	
<b>Northing (SFT)</b>	427,078.8880	
<b>Easting (SFT)</b>	1,795,589.8986	
<b>Elevation (SFT)*</b>	216.505	

  

<b>Convergence Angle</b>	0	56	41.1038354
<b>Scale Factor</b>	0.999937122		
<b>Elevation Adjust. Factor</b>	0.9999896440		
<b>Combined Adjust. Factor</b>	0.9999267666		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 29.50 METERS NORTHWEST OF A PAVED CROSSOVER, 13.65 METERS NORTHEAST OF THE CENTER OF SOUTHBOUND LANE OF U.S. HIGHWAY 63, 12.50 METERS SOUTHWEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "L 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5202 FROM NGS BENCH MARK L 314. THE SHOT DISTANCE IS 625.073 METERS.</p>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    W 15 OFFSET</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> L 324	<b>Date Monumented</b> 11/5/2008	<b>Monumented By</b> AHTD	<b>County</b> Greene	<b>Route</b> NA	<b>Job Number:</b> 100445
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	190,627.7210		
<b>Easting (M)</b>	529,606.6850		
<b>Elevation (M)*</b>	116.217		
<b>Northing (SFT)</b>	625,417.7813		
<b>Easting (SFT)</b>	1,737,551.2657		
<b>Elevation (SFT)*</b>	381.289		

  

<b>Convergence Angle</b>	0	50	13.0857547
<b>Scale Factor</b>	0.999967919		
<b>Elevation Adjust. Factor</b>	0.9999817621		
<b>Combined Adjust. Factor</b>	0.9999496817		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power pole	344	4.88	16.0
<b>MK # 2</b>	Power pole	281	15.09	49.5
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
<b>Ref Mon # 2</b> 280012,280012A	
<b>Ref Mon # 3</b> 280006,280006A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LA 1	<b>Date Monumented</b> 2/26/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> LA 14	<b>Job Number:</b> 020240
------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	437,613.9479	
<b>Easting (M)</b>	406,331.3600	
<b>Elevation (M)*</b>	33.564	
<b>Northing (SFT)</b>	1,435,738.4274	
<b>Easting (SFT)</b>	1,333,105.4703	
<b>Elevation (SFT)*</b>	110.118	

  

<b>Convergence Angle</b>	0	2	16.5047161
<b>Scale Factor</b>	1.000078245		
<b>Elevation Adjust. Factor</b>	0.9999947327		
<b>Combined Adjust. Factor</b>	1.0000729773		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI ) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.22 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 34.109 METERS NORTH OF A GRAVEL DRIVE, 13.616 METERS WEST OF THE CENTER OF LOUISIANA STATE HIGHWAY 142 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	89	32.61	107.0
<b>MK # 2</b>	NORTH END OF WEST HEADWALL	145	24.08	79.0
<b>MK # 3</b>	LIGHT POLE	178	32.84	107.7

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    LISA</p> <p><b>Ref Mon # 2</b>    STELL</p> <p><b>Ref Mon # 3</b>    G 65 OFFSET,A 200 OFFSET</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LA 1A	<b>Date Monumented</b> 2/26/1998	<b>Monumented By</b> AHTD	<b>County</b> ASHLEY	<b>Route</b> LA 14	<b>Job Number:</b> 020240
-------------------------	-------------------------------------	------------------------------	-------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	437,160.5259	
<b>Easting (M)</b>	406,504.1540	
<b>Elevation (M)*</b>	33.280	
<b>Northing (SFT)</b>	1,434,250.8254	
<b>Easting (SFT)</b>	1,333,672.3786	
<b>Elevation (SFT)*</b>	109.186	

  

<b>Convergence Angle</b>	0	2	20.2235236
<b>Scale Factor</b>	1.000079516		
<b>Elevation Adjust. Factor</b>	0.9999947773		
<b>Combined Adjust. Factor</b>	1.0000742929		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.70 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.95 METERS EAST OF THE CENTER OF LOUISIANA STATE HIGHWAY 142 AND 0.55 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.60 METER PINE TREE	336	20.20	66.3
MK # 2	POWER POLE	145	14.90	48.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: LISA	
Ref Mon # 2: STELL	
Ref Mon # 3: G 65 OFFSET, A 200 OFFSET	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LA GPS 8	<b>Date Monumented</b> 1/30/2002	<b>Monumented By</b> LaDOTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> R30079
----------------------------	-------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	439,521.3544	
<b>Easting (M)</b>	221,964.1135	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,441,996.3102	
<b>Easting (SFT)</b>	728,227.2624	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	3	58.7931338
<b>Scale Factor</b>	1.000077540		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line Rd, continue west for 0.3 mi on Ida State Line Rd to the point on the left. The point is a _ inch iron pin driven into the ground. It is 55.5 ft northwest from a power pole # 175772 with transformer attached, 43.5 ft west-southwest from a telephone junction box # 7200-4 on the north side of the road and 19.5 ft southwest from the center of the road.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						LA GPS 9
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	CADDO PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LA GPS 9	<b>Date Monumented</b> 1/30/2002	<b>Monumented By</b> LaDOTD	<b>County</b> MILLER	<b>Route</b> 71	<b>Job Number:</b> R30079
----------------------------	-------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	439,655.9184	
<b>Easting (M)</b>	221,793.6932	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,442,437.7923	
<b>Easting (SFT)</b>	727,668.1418	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	4	2.5209155
<b>Scale Factor</b>	1.000077173		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line RD, continue west for 0.4 mi on Ida State Line Rd to the point on the left, just west of a red brick house on the north side of the road. The point is a _ inch iron pin driven into the ground. It is 59 ft south from a 24-inch blackjack tree, 37.5 ft west from a telephone junction box #7200-5, 14.5 ft southwest from the center of the road and 7.5 ft north-northeast from a buried cable warning sign.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						LA GPS 8
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	CADDO PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LAKE	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> NGS	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	474,974.7521		
<b>Easting (M)</b>	463,589.1530		
<b>Elevation (M)*</b>	37.620		
<b>Northing (SFT)</b>	1,558,312.9992		
<b>Easting (SFT)</b>	1,520,958.7461		
<b>Elevation (SFT)*</b>	123.425		

  

<b>Convergence Angle</b>	0	22	56.3428284
<b>Scale Factor</b>	0.999991224		
<b>Elevation Adjust. Factor</b>	0.9999940962		
<b>Combined Adjust. Factor</b>	0.9999853203		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 22 KM (13.65 MI) SOUTHEAST OF DERMOTT, 2 KM (1.25 MI) NORTHWEST OF LAKE VILLAGE, AT THE LAKE VILLAGE MUNICIPAL AIRPORT, NEAR THE SOUTHWEST END OF THE AIRFIELD, IN THE GRASSY AREA OF THE CIRCULAR TURNAROUND FOR RUNWAY END 1. OWNERSHIP--CITY OF LAKE VILLAGE. AIRPORT MANAGER IS MIKE DAVIS, CHISAIR INC., PO BOX 162, LAKE VILLAGE AR 71653, PHONE 501-265-2723 OR 265-5566. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 82 AND 65, AND STATE HIGHWAY 144 ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON HIGHWAY 65 FOR 0.87 KM (0.55 MI) TO COUNTY HIGHWAY 980 (AIRPORT ROAD) ON THE LEFT. TURN LEFT, WEST ON THE PAVED ROAD FOR 2.36 KM (1.45 MI) TO A PAVED ROAD RIGHT (HANGAR ROAD). TURN RIGHT, NORTH ON THE ROAD FOR 0.62 KM (0.40 MI) TO A HANGAR AND AN APRON ON THE LEFT. TURN LEFT, NORTHWEST ACROSS THE APRON AND THEN WEST ALONG A CONNECTOR TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY. TURN LEFT, SOUTH ALONG THE RUNWAY FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 46.1 M (151.2 FT) SOUTHEAST OF THE FIRST</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ND SURVEY BA	1/1/1993	MoDOT	MO / PHELPS	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	400,918.4497	0.0000			
<b>Easting (M)</b>	418,592.6154	0.0000			
<b>Elevation (M)*</b>	344.128	0.0000			
<b>Northing (SFT)</b>	1,315,346.6137				
<b>Easting (SFT)</b>	1,373,332.6057				
<b>Elevation (SFT)*</b>	1,129.027				

  

<b>Convergence Angle</b>	0	7	22.7647189
<b>Scale Factor</b>	1.000790526		
<b>Elevation Adjust. Factor</b>	0.9999459980		
<b>Combined Adjust. Factor</b>	1.0007364813		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN ROLLA, MO. AT THE DEPARTMENT OF NATURAL RESOURCES, INSIDE THE LAND SURVEY BUILDING, IN A HALLWAY UNDER A SKYLIGHT, IN FRONT OF THE LADIES REST ROOM, OWNERSHIP--STATE OF MISSOURI, DEPARTMENT OF NATURAL RESOURCES, LAND SURVEY PROGRAM, P.O. BOX 250, ROLLA, MO. 65402. PHONE 573-368-2300. NOTE--CONTACT MR. MIKE FLOWERS (24-HOURS IN ADVANCE) . TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 44 (EXIT 184) AND STATE HIGHWAY 72 (KINGS HIGHWAY) ON THE WEST SIDE OF ROLLA, GO EAST, 0.48 KM (0.30 MI) ALONG HIGHWAY 72 TO THE INTERSECTION OF FAIRGROUNDS ROAD. TURN LEFT, NORTH, 0.2 KM (0.10 MI) ALONG THE ROAD TO GALE DRIVE ON THE LEFT. TURN LEFT, WEST, 0.2 KM (0.10 MI) ALONG GALE DRIVE TO THE LAND SURVEY BUILDING AND THE STATION INSIDE THE BUILDING. THE STATION IS 9.9 M (32.5 FT) EAST OF THE MAIN ENTRANCE OF THE BUILDING, 1.4 M (4.6 FT) WEST OF THE DOOR AT THE END OF THE HALL (ALSO DOORS LEADING DOWN RAMP TO MICROFILMING AND INDEXING SECTION) . BY R.G. HAYES.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ONARD NCMN 7	1/1/1985	NGS	OK / TULSA	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	174,830.4133	0.0000			
<b>Easting (M)</b>	419,077.9331	0.0000			
<b>Elevation (M)*</b>	256.609				
<b>Northing (SFT)</b>	573,589.4476				
<b>Easting (SFT)</b>	1,374,924.8522				
<b>Elevation (SFT)*</b>	841.891				

  

<b>Convergence Angle</b>	0	7	22.7647189
<b>Scale Factor</b>	0.999951953		
<b>Elevation Adjust. Factor</b>	0.9999597313		
<b>Combined Adjust. Factor</b>	0.9999116862		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>0.1 KM (0.05 MI) WESTERLY ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE IN LEONARD, THENCE 1.8 KM (1.10 MI) SOUTHERLY ALONG SOUTH 157TH AVENUE EAST AND THEN BIXHOMA LAKE ROAD, THENCE 0.2 KM (0.10 MI) EASTERLY ALONG A PAVED ROAD, THENCE 0.1 KM (0.05 MI) NORTHERLY ALONG THE OKLAHOMA GEOLOGICAL SURVEY COMPLEX ENTRANCE ROAD, 22.8 M (74.8 FT) NORTHWEST OF THE ROAD CENTER AT A CURVE, 20.5 M (67.3 FT) NORTH OF A UTILITY POLE, 15.3 M (50.2 FT) NORTH OF REFERENCE MARK 3, 15.3 M (50.2 FT) SOUTH OF REFERENCE MARK 1, 15.3 M (50.2 FT) EAST OF REFERENCE MARK 2, AND NEAR THE CENTER OF 4 WITNESS POSTS. NOTE--THE DISK IS SET IN CONCRETE IN A DEPRESSION IN BEDROCK AND IS 0.1 M (0.3 FT) BELOW THE GROUND SURFACE. TO GAIN ACCESS TO THE COMPLEX, USE PHONE AT GATE. TELEPHONE NUMBER (918) 366-6468. STATION HAS A 30 DEGREE HIGH HORIZON BLOCKAGE TO THE NORTHWEST. SITUATION WILL WORSEN AS SMALL CLEARING CLOSES IN AND TREES GROW.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> LISA	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> LaDOT	<b>County</b> A / MOREHOUS	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------	------------------------------------	-------------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	410,028.4191 0.0000
<b>Easting (M)</b>	411,139.0897 0.0000
<b>Elevation (M)*</b>	50.152
<b>Northing (SFT)</b>	1,345,234.9050
<b>Easting (SFT)</b>	1,348,878.8301
<b>Elevation (SFT)*</b>	164.540

  

<b>Convergence Angle</b>	0 3 59.4692573
<b>Scale Factor</b>	1.000164631
<b>Elevation Adjust. Factor</b>	0.9999921296
<b>Combined Adjust. Factor</b>	1.0001567593

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	32 45 25.2720000
<b>Longitude</b>	91 52 52.1400000
<b>Ellipsoid Height (M):</b>	79.728 0.0000
<b>Geoid Height (M):</b>	-84.846 0.0000

  

Location Description
<p>THE STATION IS LOCATED ABOUT 15.0 MI (24.1 KM) NORTH OF MONROE, 2.5 MI (4.0 KM) WEST OF MER ROUGE AND 2.0 MI (3.2 KM) EAST OF BASTROP. OWNERSHIP--CITY OF BASTROP, FOR ENTRANCE INTO THE AIRPORT CONTACT MR. JOHN BOLTON, AIRPORT MANAGER, PHONE 318-281-0544. TO REACH THE STATION FROM THE COURTHOUSE IN BASTROP, GO EAST FOR 2.1 MI (3.4 KM) ON STATE HIGHWAY 2 TO THE JUNCTION WITH A PARISH ROAD NUMBER 4437 (MARLATT ROAD). TURN RIGHT AND GO SOUTH FOR 1.4 MI (2.3 KM) ON THE PARISH ROAD TO A ROAD ON THE LEFT WHICH IS THE ENTRANCE INTO THE AIRPORT, AND THE STATION, NEAR THE JUNCTION OF THE RUNWAY AND A RAMP LEADING FROM THE APRON TO THE TAXIWAY AND RUNWAY. THE STATION IS 400.0 FT (121.9 M) EAST FROM THE SOUTHEAST CORNER OF A YELLOW ALUMINUM HANGAR, 143.5 FT (43.7 M) SOUTHEAST FROM A WIND TEE, 76.5 FT (23.3 M) WEST FROM THE CENTER OF THE RUNWAY, 63.5 FT (19.4 M) NORTH FROM THE CENTER OF THE RAMP LEADING TO THE APRON, 14.4 FT (4.4 M) SOUTH-SOUTHWEST OF THE WESTERNMOST ONE OF THREE TAXIWAY LIGHTS, 2.0 FT (0.6 M) EAST-NORTHEAST FROM A FIBERGLASS WITNESS POST, RECESSED 2 CM BELOW GROUND AND ABOUT LEVEL WITH THE RUNWAY.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b> LISA AZ MK (CP3177)	<b>Geodetic Azimuth</b> 164 08 06.8
<b>Grid Azimuth</b> 163 48 28.9	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 21	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> NGS	<b>County</b> POLK	<b>Route</b> 88	<b>Job Number:</b> 040352,040444
------------------------	------------------------------------	-----------------------------	-----------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	614,845.2559
<b>Easting (M)</b>	194,533.0300
<b>Elevation (M)*</b>	358.917
<b>Northing (SFT)</b>	2,017,204.8104
<b>Easting (SFT)</b>	638,230.4493
<b>Elevation (SFT)*</b>	1,177.547

  

<b>Convergence Angle</b>	-1	15	12.7817198
<b>Scale Factor</b>	0.999964270		
<b>Elevation Adjust. Factor</b>	0.9999436774		
<b>Combined Adjust. Factor</b>	0.9999079494		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	34	35	0.3651828
<b>Longitude</b>	94	14	22.9923384
<b>Ellipsoid Height (M):</b>	328.870		
<b>Geoid Height (M):</b>	-30.090		

  

Location Description
<p>STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) WEST OF INK, 9.6 KM (6.0 MI) NORTHEAST OF POTTER, AND 0.3 KM (0.2 MI) NORTHWEST OF CENTER OF MENA. IN THE CENTER OF THE TRAFFIC CIRCLE OF JANSSEN PARK. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 88 IN THE CENTER OF MENA. GO NORTHWEST ON STATE HIGHWAY 88 FOR 0.28 KM (0.17 MI) TO A CROSS STREET AT THE CITY HALL. TURN LEFT AND GO SOUTHWEST ON MAPLE AVENUE FOR 0.31 KM (0.19 MI) TO WHERE MAPLE AVENUE DEAD ENDS AT THE TRAFFIC CIRCLE IN JANSSEN PARK. AND THE STATION STRAIGHT AHEAD IN THE CENTER OF THE TRAFFIC CIRCLE. STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---M 21 1932 1177.215---. SET IN THE TOP OF A 30-CM SQUARE CONCRETE POST THAT PROJECTS 24-CM ABOVE THE GROUND. IT IS 23.9 M (78.4 FT) SOUTHEAST OF THE SOUTHEAST CORNER OF A CABIN WITH SIGN BUILT IN 1851, 12.5 M (41.0 FT) SOUTHWEST OF A FLAGPOLE, 6.6 M (21.7 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE BASE OF A CLOCK, AND 1.0 M (3.3 FT) WEST-NORTHWEST OF THE NORTHEAST CORNER OF THE CONCRETE BASE AROUND A FLOWER BED. DESCRIBED BY E.J.HANSMANN.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<input style="width: 100%; height: 150px;" type="text"/>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 289	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NOAA	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137
-------------------------	------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	552,390.5750		
<b>Easting (M)</b>	435,297.2500		
<b>Elevation (M)*</b>	54.414		
<b>Northing (SFT)</b>	1,812,301.4115		
<b>Easting (SFT)</b>	1,428,137.7277		
<b>Elevation (SFT)*</b>	178.523		

  

<b>Convergence Angle</b>	0	12	50.2494105
<b>Scale Factor</b>	0.999918474		
<b>Elevation Adjust. Factor</b>	0.9999914607		
<b>Combined Adjust. Factor</b>	0.9999099354		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 8.80 KM (5.45 MI) TO THE JUNCTION OF STATE HIGHWAY 388 AND THE STATION ON THE RIGHT SET IN FRONT OF A DEPARTMENT OF CORRECTIONS SIGN. THE STATION IS 25. 6 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 17.9 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 388, 1.6 METERS SOUTHEAST OF THE SOUTHEAST FACE OF BRICK PLANTER AND 2.6 METERS NORTHEAST OF A GROUND FLOODLIGHT. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "M 289 1984" SET FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	CENTER OF HEADWALL	174	11.60	38.1	
<b>MK # 2</b>	SOUTHWEST CORNER OF BRICK SIGN	249	5.10	16.7	
<b>MK # 3</b>	NORTHEAST CORNER OF BRICK SIGN	8	3.70	12.1	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD MON 1</p> <p><b>Ref Mon # 2</b>    J 112</p> <p><b>Ref Mon # 3</b>    K 124</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 289A	<b>Date Monumented</b> 12/8/1998	<b>Monumented By</b> AHTD	<b>County</b> LINCOLN	<b>Route</b> 65	<b>Job Number:</b> 20137
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	551,948.6300		
<b>Easting (M)</b>	435,769.2440		
<b>Elevation (M)*</b>	53.209		
<b>Northing (SFT)</b>	1,810,851.4636		
<b>Easting (SFT)</b>	1,429,686.2614		
<b>Elevation (SFT)*</b>	174.570		

  

<b>Convergence Angle</b>	0	13	0.5125773
<b>Scale Factor</b>	0.999918470		
<b>Elevation Adjust. Factor</b>	0.9999916498		
<b>Combined Adjust. Factor</b>	0.9999101205		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD MON 1						
Ref Mon # 2	J 112						
Ref Mon # 3	K 124						

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 2 9.7710864
<b>Longitude</b>	91 36 45.4572720
<b>Ellipsoid Height (M):</b>	27.282
<b>Geoid Height (M):</b>	-25.901

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 9.45 KM (5.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 30.81 METERS NORTH-NORTHEAST OF THE NORTHEAST RAIL, 20.22 METERS SOUTH-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "M 289A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 314	<b>Date Monumented</b> 1/2/1990	<b>Monumented By</b> NOAA	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
-------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	133,645.2539				
<b>Easting (M)</b>	543,861.3448				
<b>Elevation (M)*</b>	66.419				
<b>Northing (SFT)</b>	438,467.8038				
<b>Easting (SFT)</b>	1,784,318.4287				
<b>Elevation (SFT)*</b>	217.910				

  

<b>Convergence Angle</b>	0	55	23.0816449
<b>Scale Factor</b>	0.999936423		
<b>Elevation Adjust. Factor</b>	0.9999895768		
<b>Combined Adjust. Factor</b>	0.9999260005		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH, LOCATED IN MARKED TREE, GO SOUTHWEST ON U.S. HIGHWAY 63B FOR 0.51 IM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE NEAR RAIL, 12.20 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 63B (FRISCO STREET), 1.60 METERS SOUTHWEST OF THE EXTENDED CENTER OF 6TH STREET, 0.50 METERS SOUTHWEST OF AN AHTD WITNESS POST AND 0.30 METERS NORTHWEST OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITHN ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "M 314 1990". THE SHOT DISTANCE IS 506.571 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	313	2.30	7.5
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    W 15 OFFSET</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 314A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	133,306.2722	
<b>Easting (M)</b>	544,237.7272	
<b>Elevation (M)*</b>	65.114	
<b>Northing (SFT)</b>	437,355.6614	
<b>Easting (SFT)</b>	1,785,553.2767	
<b>Elevation (SFT)*</b>	213.628	

  

<b>Convergence Angle</b>	0	55	31.6478015
<b>Scale Factor</b>	0.999936478		
<b>Elevation Adjust. Factor</b>	0.9999897816		
<b>Combined Adjust. Factor</b>	0.9999262602		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS SET AT THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH IN MARKED TREE. THE STATION IS 26.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 63B, 19.10 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 149 SOUTH AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "M 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK M 314. THE SHOT DISTANCE IS 506.571.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	51	4.40	14.4
<b>MK # 2</b>	NORTHEAST CORNER OF CHURCH OF CHRIST	252	36.70	120.4
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    W 15 OFFSET</p> <p><b>Ref Mon # 2</b>    MANIPORT</p> <p><b>Ref Mon # 3</b>    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 319	<b>Date Monumented</b> 10/9/2006	<b>Monumented By</b> AHTD	<b>County</b> Drew	<b>Route</b> 278	<b>Job Number:</b> 001873,020462,020470,C2200
-------------------------	-------------------------------------	------------------------------	-----------------------	---------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	507,341.3182	
<b>Easting (M)</b>	410,098.2600	
<b>Elevation (M)*</b>	63.746	
<b>Northing (SFT)</b>	1,664,502.3081	
<b>Easting (SFT)</b>	1,345,464.0414	
<b>Elevation (SFT)*</b>	209.140	

  

<b>Convergence Angle</b>	0	3	39.3178457
<b>Scale Factor</b>	0.999942687		
<b>Elevation Adjust. Factor</b>	0.9999899963		
<b>Combined Adjust. Factor</b>	0.9999326839		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 278 and 425 in Monticello go west on hwy-278 for 5.30 miles to a paved road on the right, turn right on the paved road and go north to a curve in the road and the station near the fence corner. 222.0 feet north of the center of hwy-278, 45.40 feet north of the center of the paved road . The station mark is a 3D NGS stainless steel rod 46.50 feet long and driven to refusal under a logo cap stamped "M 319 2006" and anchored in concrete.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way fence corner		3.23	10.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> Warrport, Warrport Az. <b>Ref Mon # 2</b> ARCM,ARLR, UAM AFRC SIS <b>Ref Mon # 3</b> W 77, T 83, 220013, 220001A	<b>Comments</b> 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 333	<b>Date Monumented</b> 1/4/2012	<b>Monumented By</b> AHTD	<b>County</b> BOONE	<b>Route</b> N/A	<b>Job Number:</b> R90095 090555
-------------------------	------------------------------------	------------------------------	------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	204,531.4595    0.0030
<b>Easting (M)</b>	308,651.6132    0.0030
<b>Elevation (M)*</b>	384.542
<b>Northing (SFT)</b>	671,033.6300
<b>Easting (SFT)</b>	1,012,634.5010
<b>Elevation (SFT)*</b>	1,261.618

  

<b>Convergence Angle</b>	0    35    27.0692296
<b>Scale Factor</b>	0.999988567
<b>Elevation Adjust. Factor</b>	0.9999396565
<b>Combined Adjust. Factor</b>	0.9999282242

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Description			
TO REACH FROM THE INTERSECTION OF HIGHWAY 65 AND HIGHWAY 123, GO NORTH ALONG HIGHWAY 65 FOR 6.7 MI (10.8 KM) TO AN ASPHALT ROAD THEN TURN LEFT GO EAST ON THE ROAD FOR 0.08 MI (0.1 KM) TO THE STATION ON THE LEFT. IT IS 12.5 M (41.0 FT) NORTH OF A WITNESS POST, 208 FT (63.4 M) SOUTHEAST OF THE SOUTH EAST CORNER OF THE RIVER OF LIFE CHURCH, 48 FT (14.6 M) NORTHEAST OF A COMBINATION POLE, 30 FT (9.1 M) EAST OF AN ASPHALT DRIVE, 26.6 FT (8.1 M) NORTH OF AN ASPHALT ROAD AND 10 FT (3.0M) NORTHWEST OF A WATER METER.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARHR	USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2    ARRV	
Ref Mon # 3    ARM3, MOBR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MAGNOLIA 2	<b>Date Monumented</b> 1/1/1976	<b>Monumented By</b> NGS	<b>County</b> COLUMBIA	<b>Route</b> 371	<b>Job Number:</b> 070304
------------------------------	------------------------------------	-----------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	469,876.5730	
<b>Easting (M)</b>	284,872.8250	
<b>Elevation (M)*</b>	105.708	
<b>Northing (SFT)</b>	1,541,586.7233	
<b>Easting (SFT)</b>	934,620.2600	
<b>Elevation (SFT)*</b>	346.811	

  

<b>Convergence Angle</b>	0	41	30.4308927
<b>Scale Factor</b>	1.000002146		
<b>Elevation Adjust. Factor</b>	0.9999834112		
<b>Combined Adjust. Factor</b>	0.9999855572		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	MAGNOLIA 2 AZ MK (DL1471)	083 58	157.03	515.2
<b>MK # 2</b>	MAGNOLIA 2 RM 5 (DL0629)	122 21	16.07	52.7
<b>MK # 3</b>	MAGNOLIA (DL0626)	286 19	32.29	105.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Digital Levels ran March 2009 by crew S5110 from 2nd order NGS marks Magnolia RM 2 and H120 (Job 070177 was ran with 3wire levels from H120 and appended to digital levels on Job 070304 from Magnolia RM 2)

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MANIPORT	<b>Date Monumented</b> 1/1/2000	<b>Monumented By</b> NGS	<b>County</b> MISSISSIPPI	<b>Route</b> 77	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	------------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	174,445.7589	
<b>Easting (M)</b>	566,572.7470	
<b>Elevation (M)*</b>	73.150	
<b>Northing (SFT)</b>	572,327.4607	
<b>Easting (SFT)</b>	1,858,830.7541	
<b>Elevation (SFT)*</b>	239.993	

  

<b>Convergence Angle</b>	1	4	25.2417872
<b>Scale Factor</b>	0.999950286		
<b>Elevation Adjust. Factor</b>	0.9999885205		
<b>Combined Adjust. Factor</b>	0.9999388071		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 16 KM (9.95 MI) EAST-NORTHEAST OF MONETTE, 9 KM (5.60 MI) SOUTHEAST OF LEACHVILLE, ON THE NORTHEAST SIDE OF MANILLA AT THE MANILLA MUNICIPAL AIRPORT, JUST SOUTH OF MIDFIELD AND DUE EAST OF THE AIRPORT BEACON. OWNERSHIP--CITY OF MANILLA, PO BOX 895, MANILLA, AR 72442. AIRPORT MANAGER IS JIMMY WHITE WHO CAN BE REACHED AT 501-561-4437 (CITY HALL NUMBER) OR 501-561-3375 (BUSINESS NUMBER). NOTE--THIS STATION IS A PRIMARY AIRPORT CONTROL (PAC) STATION. TO REACH THE STATION FROM THE EAST ONE OF TWO JUNCTIONS OF STATE HIGHWAYS 77 AND 18 IN MANILLA, GO NORTHEAST AND EAST ON HIGHWAY 18 FOR 0.72 KM (0.45 MI) TO HIGHWAY 18B (BALTIMORE STREET) ON THE LEFT. TURN LEFT AND GO NORTH ON BALTIMORE STREET FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF LAKE STREET. TURN RIGHT ON LAKE STREET AND GO EAST FOR 0.89 KM (0.55 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ROAD FOR 0.36 KM (0.20 MI) TO A GATE. PASS THROUGH THE GATE, TURN RIGHT AND PROCEED EAST ON A PAVED ROAD FOR 0.08 KM (0.05 MI) TO WHERE THE ROAD TURNS RIGHT. TURN RIGHT AND GO SOUTH ON THE ROAD AND ACROSS THE APRON FOR 0.16 KM (0.10 MI) TO A</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b>	ANIPORT AZ MK (FF2146)
<b>Geodetic Azimuth</b>	000 30 21.4
<b>Grid Azimuth</b>	359 25 56.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MATNEY	<b>Date Monumented</b> 1/1/1953	<b>Monumented By</b> NGS	<b>County</b> BAXTER	<b>Route</b> 341	<b>Job Number:</b> 009813
--------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,855.9170	
<b>Easting (M)</b>	371,628.1020	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	681,940.6210	
<b>Easting (SFT)</b>	1,219,249.8646	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	0.9156983
<b>Scale Factor</b>	0.999994796		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS IN THE OZARK NATIONAL FOREST ON THE SUMMIT OF MATNEY KNOB ABOUT 2 MILES WEST-SOUTHWEST OF NORFORK AND 48 FEET EAST OF THE NORTHEAST CORNER OF A HOUSE. TO REACH THE STATION FROM THE RAILROAD STATION IN NORFORK, GO WEST ON STATE HIGHWAY 5 FOR 0.2 MILE TO A SIDE ROAD ON THE LEFT, TURN LEFT AND GO 0.3 MILE TO THE FERRY, CROSS FERRY AND FOLLOW THE MAIN GRAVELED ROAD FOR 2.1 MILES TO A SIDE ROAD ON THE RIGHT, TURN RIGHT AND GO 0.5 MILE TO THE MATNEY LOOKOUT TOWER AND STATION. THE STATION MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY 1953. REFERENCE MARK 1 IS 20 FEET WEST OF A WIRE FENCE. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY NO 1 1953. REFERENCE MARK 2 IS 20 FEET NORTHEAST OF THE NORTHWEST CORNER OF THE HOUSE. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY NO 2 1953. A TRAVERSE WAS MADE TO MATNEY KNOB (USED). IT IS A STANDARD U.S. ENGINEER DEPARTMENT DISK SET IN THE TOP OF AN 8 X 8 INCH CONCRETE POST WHICH PROJECTS 3 INCHES. THE DISK IS STAMPED MATNEY KNOB 1940. A TRAVERSE WAS MADE AT GROUND LEVEL TO THE CENTER OF MATNEY KNOB LOOKOUT TOWER. NO SUITABLE</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MATNEY RM 1	63 55 00	18.62	61.1	
MK # 2	MATNEY KNOB	238 34 00	21.86	71.7	
MK # 3	MATNEY LOOKOUT TOWER	239 44 00	20.00	65.6	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> EY LOOKOUT T	<b>Date Monumented</b> 1/1/1953	<b>Monumented By</b> NGS	<b>County</b> BAXTER	<b>Route</b> 341	<b>Job Number:</b> 009813
--------------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,845.8930	
<b>Easting (M)</b>	371,610.7990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	681,907.7340	
<b>Easting (SFT)</b>	1,219,193.0964	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	1.3180159
<b>Scale Factor</b>	0.999994778		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MENAPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> POLK	<b>Route</b> 8	<b>Job Number:</b> 040352
----------------------------	------------------------------------	-----------------------------	-----------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,835.2659	
<b>Easting (M)</b>	197,403.5300	
<b>Elevation (M)*</b>	322.600	
<b>Northing (SFT)</b>	2,004,048.7015	
<b>Easting (SFT)</b>	647,648.0813	
<b>Elevation (SFT)*</b>	1,058.397	

  

<b>Convergence Angle</b>	-1	14	7.8561640
<b>Scale Factor</b>	0.999958521		
<b>Elevation Adjust. Factor</b>	0.9999493761		
<b>Combined Adjust. Factor</b>	0.9999078992		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) EAST OF POTTER, 9.4 KM (5.8 MI) SOUTHWEST OF INK, AND 4.5 KM (2.8 MI) SOUTHEAST OF MENA. AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT. OWNERSHIP--CITY OF MENA, P.O. BOX 898, MENA AR 71953. NO AIRPORT MANAGER. CONTACT GARY WILLIAMS, FBO, P.O.BOX 1413, MENA AR 71953. PHONE IS 501-394-5800 OR HOME 501-394-3000. AND JIM MONTGOMERY, AIRPORT COMMISSION. PHONE IS 501-394-2536. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHERLY ON STATE HIGHWAY 8 FOR 3.91 KM (2.43 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHWEST ON COUNTY ROAD 980 FOR 0.68 KM (0.42 MI) TO A T-JUNCTION. TURN RIGHT AND GO NORTH ON A PAVED ROAD FOR 0.14 KM (0.09 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTH ON A TAXIWAY FOR 0.16 KM (0.10 MI) TO TAXIWAY AND THE STATION ON THE RIGHT. AIRPORT OFFICE IS WEST AND ACROSS THE RUNWAY FROM THE STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP, SET 40.0 M (131.2 FT) EAST-NORTHEAST OF THE RUNWAY CENTERLINE, 21.0 M (68.9 FT) WEST-SOUTHWEST OF THE CENTER OF THE TAXIWAY, AND 20.0 M (65.6 FT) SOUTH-</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ENAPORT AZ M	1/1/1990	NGS	POLK	8	040352

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	611,649.8759	
<b>Easting (M)</b>	197,322.7500	
<b>Elevation (M)*</b>	316.480	
<b>Northing (SFT)</b>	2,006,721.3012	
<b>Easting (SFT)</b>	647,383.0556	
<b>Elevation (SFT)*</b>	1,038.318	

  

<b>Convergence Angle</b>	-1	14	10.0148589
<b>Scale Factor</b>	0.999959673		
<b>Elevation Adjust. Factor</b>	0.9999503364		
<b>Combined Adjust. Factor</b>	0.9999100114		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) EAST OF POTTER, 4.74 KM (2.95 MI) SOUTHEAST OF MENA, AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, JUST SOUTH OF THE RUNUP RAMP FOR RUNWAY END 17, BETWEEN THE RUNWAY AND PARALLEL TAXI. OWNERSHIP--CITY OF MENA, PO BOX 898, MENA AR 71953. NO AIRPORT MANAGER. FBO IS GARY WILLIAMS, PO BOX 1413, MENA AR 71953, PHONE 501-394-5800, 394-3000 (HOME). TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 59 AND 71, AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHEASTERLY ON HIGHWAY 8 FOR 3.94 KM (2.45 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHEAST, THEN SOUTH ON COUNTY ROAD 980 FOR 0.69 KM (0.40 MI) TO A CROSSROAD, AIRPORT LANE. TURN RIGHT, WEST ON THE ROAD FOR 0.14 KM (0.10 MI) TO A TAXIWAY. TURN RIGHT, NORTH ALONG THE TAXIWAY FOR 0.69 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND. IT IS 35.8 M (117.5 FT) EAST-NORTHEAST OF THE RUNWAY CENTER, 25.4 M (83.3 FT) WEST-SOUTHWEST OF THE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MO 162	<b>Date Monumented</b> 9/1/1997	<b>Monumented By</b> MoDOT	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100451
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,515.4519	
<b>Easting (M)</b>	548,543.1580	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	628,330.2784	
<b>Easting (SFT)</b>	1,799,678.6775	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	57	33.5878467
<b>Scale Factor</b>	0.999968666		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO EAST ON U.S HIGHWAY 412 FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.47 METERS SOUTHWEST OF A POWER POLE, 17.51 METERS EAST OF A POWER POLE AND 12.10 METER NORTH OF NORTH EDGE OF CONCRETE OF U.S. HIGHWAY 412. THE STATION MARK IS A COPPERWELD 0.61 METERS LONG STAMPED "162" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 439.320 METERS.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    AHTD PAR 1</p> <p>Ref Mon # 2    KENNPORT</p> <p>Ref Mon # 3    MANIPORT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MO 163	<b>Date Monumented</b> 9/1/1997	<b>Monumented By</b> MoDOT	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100451
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	191,284.7100	
<b>Easting (M)</b>	548,916.9810	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	627,573.2527	
<b>Easting (SFT)</b>	1,800,905.1285	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	57	42.1874599
<b>Scale Factor</b>	0.999968365		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 1.00 KM (0.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS SOUTH OF THE SOUTH EDGE OF CONCRETE OF U.S. HIGHWAY 412. THE STATION MARK IS A COPPERWELD 0.61 METERS LONG STAMPED "163" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 439.320 METERS.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LITER SIGN POST	30	19.95	65.5	MO 162
MK # 2	POWER POLE	135	31.85	104.5	302 38 47.83244
MK # 3	NONE				301 41 05.59659

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AHTD PAR 1	
Ref Mon # 2: KENNPORT	
Ref Mon # 3: MANIPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MO 166	<b>Date Monumented</b> 3/17/2000	<b>Monumented By</b> MoDOT	<b>County</b> GREENE	<b>Route</b> 164	<b>Job Number:</b> 100451
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,668.1820	
<b>Easting (M)</b>	553,792.6960	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	625,550.5271	
<b>Easting (SFT)</b>	1,816,901.5368	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	35.2727281
<b>Scale Factor</b>	0.999967485		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	192	5.00	16.4
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> 280003	
<b>Ref Mon # 2</b> KENNPORT	
<b>Ref Mon # 3</b> MANIPORT	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 23.7232284
<b>Longitude</b>	90 17 35.8548108
<b>Ellipsoid Height (M):</b>	46.306
<b>Geoid Height (M):</b>	-28.190

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO NORTH ON STATE HIGHWAY 164 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF STATE HIGHWAY 164. THE STATION MARK IS COPPERWELD 0.61 METERS LONG STAMPED "166" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 526.917 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MO 166A	<b>Date Monumented</b> 3/17/2000	<b>Monumented By</b> AHTD	<b>County</b> GREENE	<b>Route</b> 412	<b>Job Number:</b> 100451
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	190,556.9909	
<b>Easting (M)</b>	553,277.6690	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	625,185.7276	
<b>Easting (SFT)</b>	1,815,211.8190	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	59	23.2574499
<b>Scale Factor</b>	0.999967358		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WEST END CMP	55	8.20	26.9
<b>MK # 2</b>	POWER POLE	260	13.64	44.8
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> 280003	
<b>Ref Mon # 2</b> KENNPORT	
<b>Ref Mon # 3</b> MANIPORT	

  

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 2 20.4052884
<b>Longitude</b>	90 17 56.5031976
<b>Ellipsoid Height (M):</b>	46.476
<b>Geoid Height (M):</b>	-28.189

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO WEST ON U.S. HIGHWAY 412 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.40 METERS WEST OF A FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "MO 166A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.917 METERS.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
MO TARGET F	1/22/2001	MODOT	DONALD CO. I	N/A	009969

  

<b>Zone</b>	<b>Zone Code</b>
Arkansas North	301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	244,238.1335
<b>Easting (M)</b>	185,739.1761
<b>Elevation (M)*</b>	308.122
<b>Northing (SFT)</b>	801,304.6097
<b>Easting (SFT)</b>	609,379.2803
<b>Elevation (SFT)*</b>	1,010.898

  

<b>Convergence Angle</b>	-1	23	30.7718581
<b>Scale Factor</b>	1.000066768		
<b>Elevation Adjust. Factor</b>	0.9999516479		
<b>Combined Adjust. Factor</b>	1.0000184127		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURG ROAD FOR 2.17 KM (1.35 MI) TO THE JUNCTION OF A GRAVELED ENTRANCE TO A PASTURE ON THE RIGHT, TURN RIGHT NORTHWEST AND PASS THRU A LOCKED GATE FOR 0.31 KM (0.20 MI) TO A "Y" JUNCTION GO LEFT, CONTINUE NORTHWEST FOR 1.13 KM (0.70 MI) TO FIELD ROAD ON THE RIGHT, GO RIGHT NORTHEAST PASSING THRU A CREEK FOR 0.24 KM (0.15 MI) TO THE STATION. THE STATION IS 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A 5/8" REBAR WITH A PUNCH MARK SET IN CONCRETE ABOUT 0.15 METERS BELOW THE LEVEL OF THE GROUND. THE SHOT DISTANCE IS 397.543 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NAIL IN SHINNER 24" OAK	17		
MK # 2	NAIL IN SHINNER CROSS TIE GATE POST	105		
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    CASSPORT</p> <p>Ref Mon # 3    FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
MO TARGET G	1/22/2001	MODOT	DONALD CO. I	N/A	009969

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	244,431.1263	
<b>Easting (M)</b>	186,086.7438	
<b>Elevation (M)*</b>	314.412	
<b>Northing (SFT)</b>	801,937.7869	
<b>Easting (SFT)</b>	610,519.5920	
<b>Elevation (SFT)*</b>	1,031.533	

  

<b>Convergence Angle</b>	-1	23	22.7561660
<b>Scale Factor</b>	1.000067282		
<b>Elevation Adjust. Factor</b>	0.9999506610		
<b>Combined Adjust. Factor</b>	1.0000179396		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURG ROAD FOR 2.17 KM (1.35 MI) TO THE JUNCTION OF A GRAVELED ENTRANCE TO A PASTURE ON THE RIGHT, TURN RIGHT NORTHWEST AND PASS THRU A LOCKED GATE FOR 0.31 KM (0.20 MI) TO A "Y" JUNCTION GO LEFT, CONTINUE NORTHWEST FOR 1.13 KM (0.70 MI) TO FIELD ROAD ON THE RIGHT, GO RIGHT NORTHEAST PASSING THRU A CREEK FOR 0.24 KM (0.15 MI) TO A WIRE GATE, GO THUR THE GATE AND CONTINUE NORHTEAST FOR .40KM (0.25 MI) TO THE STATION. THE STATION IS 5.70 METERS SOUTHEAST OF A FIELD ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A 5/8" REBAR WITH A PUNCH MARK SET IN CONCRETE ABOUT 0.15 METERS BELOW THE LEVEL OF THE GROUND. THE SHOT DISTANCE IS 397.543 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NAIL IN SHINNER IN 6" HACKBERRY TREE	92		
<b>MK # 2</b>	NAIL INSHINNER IN 6" WHITE OAK	159		
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="V 26"/> <b>Ref Mon # 2</b> <input type="text" value="CASSPORT"/> <b>Ref Mon # 3</b> <input type="text" value="FLINT"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MORO	<b>Date Monumented</b> 1/1/1965	<b>Monumented By</b> USC&GS	<b>County</b> LEE	<b>Route</b> 79	<b>Job Number:</b> R10087
------------------------	------------------------------------	--------------------------------	----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	49,553.8550	
<b>Easting (M)</b>	494,548.1070	
<b>Elevation (M)*</b>	61.776	
<b>Northing (SFT)</b>	162,577.9393	
<b>Easting (SFT)</b>	1,622,529.9144	
<b>Elevation (SFT)*</b>	202.675	

  

<b>Convergence Angle</b>	0	36	3.7162910
<b>Scale Factor</b>	1.000034773		
<b>Elevation Adjust. Factor</b>	0.9999903055		
<b>Combined Adjust. Factor</b>	1.0000250782		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MORO RM 1	90	30.37	99.6
MK # 2	MORO RM 2	270	29.03	95.2
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 BRINKLEYPORT	Original elevation was 202.6538. Elevation updated by crew S5102n in May 2016 using three wire from NGS benchmark M 176 and P 176.
Ref Mon # 2 540002	
Ref Mon # 3 480005	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> MOSS	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> LaDOT	<b>County</b> LA / WEBSTER	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------	------------------------------------	-------------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	436,501.9064	0.1800			
<b>Easting (M)</b>	268,147.3567	0.1600			
<b>Elevation (M)*</b>	63.289				
<b>Northing (SFT)</b>	1,432,090.0046				
<b>Easting (SFT)</b>	879,746.7861				
<b>Elevation (SFT)*</b>	207.641				

  

<b>Convergence Angle</b>	0	47	22.2454626
<b>Scale Factor</b>	1.000083937		
<b>Elevation Adjust. Factor</b>	0.9999900680		
<b>Combined Adjust. Factor</b>	1.0000740042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 30 MI (48.3 KM) NORTHEAST OF SHREVEPORT, 20 MI (32.2 KM) NORTHWEST OF HOMER, 3 MI (4.8 KM) SOUTHEAST OF SPRINGHILL, AT THE SPRINGHILL AIRPORT, NEAR THE NORTH END OF THE PARALLEL TAXIWAY (OLD RUNWAY). OWNERSHIP--CITY OF SPRINGHILL, CITY HALL, 101 MACHEN DRIVE, SPRINGHILL LA 71075. AIRPORT MANAGER IS S.C. MOSS, PHONE 318-539-4568. CONTACT HIM PRIOR TO OBSERVATIONS. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 157 IN SPRINGHILL, GO EAST FOR 3.5 MI (5.6 KM) ON HIGHWAY 157 TO PARISH ROAD 210 (SPRINGHILL AIRPORT ROAD) ON THE RIGHT. TURN RIGHT AND GO SOUTH, THEN SOUTHEAST FOR 0.3 MI (0.5 KM) ON PARISH ROAD 210 TO PARISH ROAD 210A (AIRPORT LOOP ROAD) ON THE LEFT. TURN LEFT AND GO EAST-NORTHEAST FOR 0.05 MI (0.08 KM) ON PARISH ROAD 210A TO THE AIRPORT ACCESS ROAD ON RIGHT. TURN RIGHT AND GO SOUTHEAST, THEN SOUTH FOR 0.2 MI (0.3 KM) ON THE ACCESS ROAD TO THE AIRPORT OFFICE ON LEFT. CONTINUE SOUTH FOR 0.05 MI (0.08 KM) ON APRON AND WEST ON RAMP TO THE JUNCTION WITH NORTH END OF PARALLEL TAXIWAY AND THE STATION ON LEFT. LOCATED 441.7 FT (134.6 M) WEST FROM THE CENTERLINE OF RUNWAY, 77.0 FT (23.5 M) SOUTH FROM THE CENTERLINE OF</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Position is from NGS datasheet</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 209	<b>Date Monumented</b> 1/1/1962	<b>Monumented By</b> NGS	<b>County</b> CONWAY	<b>Route</b> 124	<b>Job Number:</b> 080382
-------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,829.2991	
<b>Easting (M)</b>	354,705.3780	
<b>Elevation (M)*</b>	111.648	
<b>Northing (SFT)</b>	357,050.7921	
<b>Easting (SFT)</b>	1,163,729.2277	
<b>Elevation (SFT)*</b>	366.300	

  

<b>Convergence Angle</b>	0	17	23.4509372
<b>Scale Factor</b>	0.999947056		
<b>Elevation Adjust. Factor</b>	0.9999824790		
<b>Combined Adjust. Factor</b>	0.9999295360		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285, SOUTHWEST OF DAMASCUS, GO WEST ON 124 FOR 2.75 MILES TO THE STATION MARK ON THE LEFT, 8.5 FEET NORTHWEST OF A 4 STRAN BARBWIRE FENCE, SOUTHEAST 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED "N 209 1962" SET IN A CONCRETE POST PROJECTING 1.0 FOOT ABOVE THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARBT</p> <p>Ref Mon # 3    ARFY</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 314	<b>Date Monumented</b> 1/2/1990	<b>Monumented By</b> NOAA	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
-------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	133,665.4611	
<b>Easting (M)</b>	540,603.2918	
<b>Elevation (M)*</b>	65.405	
<b>Northing (SFT)</b>	438,534.1003	
<b>Easting (SFT)</b>	1,773,629.2998	
<b>Elevation (SFT)*</b>	214.583	

  

<b>Convergence Angle</b>	0	54	7.8431657
<b>Scale Factor</b>	0.999936412		
<b>Elevation Adjust. Factor</b>	0.9999897359		
<b>Combined Adjust. Factor</b>	0.9999261486		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.57 KM (2.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.80 METERS NORTH OF THE CENTER OF THE NORTHBOUND LANE OF U. S. HIGHWAY 63, 0.30 METERS EAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS SOUTH OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "N 314 1990". THE SHOT DISTANCE IS 508.870.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	105	1.80	5.9
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    W 15 OFFSET</p> <p>Ref Mon # 2    MANIPORT</p> <p>Ref Mon # 3    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 314A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	133,637.7585	
<b>Easting (M)</b>	541,111.3717	
<b>Elevation (M)*</b>	65.773	
<b>Northing (SFT)</b>	438,443.2127	
<b>Easting (SFT)</b>	1,775,296.2253	
<b>Elevation (SFT)*</b>	215.790	

  

<b>Convergence Angle</b>	0	54	19.5674146
<b>Scale Factor</b>	0.999936417		
<b>Elevation Adjust. Factor</b>	0.9999896782		
<b>Combined Adjust. Factor</b>	0.9999260958		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.00 KM (1.87 MI) TO THE STATION ON THE LEFT SET IN THEN MEDIAN. THE STATION IS 10.15 METERS SOUTH OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.55 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 63 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "N 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK N 314. THE SHOT DISTANCE IS 508.870 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    W 15 OFFSET</p> <p><b>Ref Mon # 2</b>    MANIPORT</p> <p><b>Ref Mon # 3</b>    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 34 RESET	<b>Date Monumented</b> 1/2/1987	<b>Monumented By</b> USC&GS	<b>County</b> BENTON	<b>Route</b> 72	<b>Job Number:</b> 009969
------------------------------	------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,938.5236	
<b>Easting (M)</b>	186,540.4970	
<b>Elevation (M)*</b>	399.647	
<b>Northing (SFT)</b>	770,794.1395	
<b>Easting (SFT)</b>	612,008.2806	
<b>Elevation (SFT)*</b>	1,311.174	

  

<b>Convergence Angle</b>	-1	23	6.7822451
<b>Scale Factor</b>	1.000044195		
<b>Elevation Adjust. Factor</b>	0.9999372864		
<b>Combined Adjust. Factor</b>	0.9999814786		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 5.01 KM (3.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.63 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 72 AND 0.28 METERS NORTHWEST OF A WITNESS POST. THE STATION IS A N.G.S. DISK STAMPED "N 34 RESET 1987" SET IN A SQUARE CONCRETE MONUMENT. THE SHOT DISTANCE IS 502.558. ELEVATION ON THIS STATION WAS RUN BY N.G.S.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	86	1.23	4.0
MK # 2	MOST WESTERLY BRACE POST	231	3.45	11.3
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    V 26</p> <p>Ref Mon # 2    CASSPORT</p> <p>Ref Mon # 3    FLINT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 37	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> CGS	<b>County</b> MARION	<b>Route</b> 62	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,164.2540	
<b>Easting (M)</b>	336,470.0780	
<b>Elevation (M)*</b>	252.129	
<b>Northing (SFT)</b>	696,075.5567	
<b>Easting (SFT)</b>	1,103,902.2476	
<b>Elevation (SFT)*</b>	827.193	

  

<b>Convergence Angle</b>	0	24	40.6124347
<b>Scale Factor</b>	1.000002051		
<b>Elevation Adjust. Factor</b>	0.9999604343		
<b>Combined Adjust. Factor</b>	0.9999624852		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF PYATT, 10 KM (6.20 MI) SOUTHWEST OF FLIPPIN, 3 KM (1.85 MI) NORTHWEST OF YELLVILLE, IN THE NORTH QUADRANT OF THE JUNCTION OF THE HIGHWAY AND A RAILROAD TRACK. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 14 IN THE CENTER OF YELLVILLE, GO NORTHWEST ON HIGHWAY 62 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT JUST AFTER CROSSING THE RAILROAD TRACKS. THE STATION IS SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING 25 CM ABOVE GROUND. IT IS 51.3 M (168.3 FT) EAST-NORTHEAST OF THE CENTER OF THE JUNCTION OF THE HIGHWAY AND THE RAILROAD TRACKS, 16.7 M (54.8 FT) NORTHEAST OF THE NORTHEAST CORNER OF A METAL RAILROAD JUNCTION BOX, 5.9 M (19.4 FT) NORTH-NORTHWEST OF THE NORTHWEST RAIL OF THE TRACKS AND 0.4 M (1.3 FT) SOUTH-SOUTHEAST OF A STEEL WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 42	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> NGS	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050175
------------------------	------------------------------------	-----------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	153,528.5740	
<b>Easting (M)</b>	422,551.6770	
<b>Elevation (M)*</b>	121.223	
<b>Northing (SFT)</b>	503,701.6632	
<b>Easting (SFT)</b>	1,386,321.6270	
<b>Elevation (SFT)*</b>	397.712	

  

<b>Convergence Angle</b>	0	8	42.1323373
<b>Scale Factor</b>	0.999938608		
<b>Elevation Adjust. Factor</b>	0.9999809765		
<b>Combined Adjust. Factor</b>	0.9999195857		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 25, SOUTHWEST OF BATESVILLE, GO SOUTH ON HIGHWAY 25 FOR 0.41 MILES TO THE STATION MARK ON THE RIGHT, 39.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 24.0 FEET WEST OF</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: HEBEPORT	
Ref Mon # 2: ARHR	
Ref Mon # 3: ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 48	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> NGS	<b>County</b> VAN BUREN	<b>Route</b> 16	<b>Job Number:</b> 050228
------------------------	------------------------------------	-----------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	139,796.8380	
<b>Easting (M)</b>	358,541.6550	
<b>Elevation (M)*</b>	154.833	
<b>Northing (SFT)</b>	458,650.1260	
<b>Easting (SFT)</b>	1,176,315.4131	
<b>Elevation (SFT)*</b>	507.981	

  

<b>Convergence Angle</b>	0	15	58.3907757
<b>Scale Factor</b>	0.999935946		
<b>Elevation Adjust. Factor</b>	0.9999757022		
<b>Combined Adjust. Factor</b>	0.9999116498		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN THE CENTER OF THE CLINTON BUSINESS DISTRICT SOUTHWEST AND ACROSS THE STREET FROM THE COURT HOUSE BUILDING ON THE WEST SIDE OF A POWER POLE AT THE SOUTHEAST CORNER OF THE JUNCTION OF COURT STREET AND A STREET ON THE SOUTH SIDE OF THE COURT HOUSE. TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 16 WEST ON THE NORTH SIDE OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HIGHWAY 65-B, BEAR RIGHT, SOUTHERLY ON HIGHWAY 65-B FOR 1.05 KM (0.65 MI) TO THE JUNCTION OF MAIN STREET ON THE LEFT, TURN LEFT, EAST ON MAIN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF COURT STREET, TURN RIGHT, SOUTH ON COURT STREET FOR 0.05 KM (0.05 MI) TO THE JUNCTION OF A PAVED STREET ON THE SOUTH SIDE OF THE COURT HOUSE, AND THE STATION ON THE LEFT AT THE SOUTHEAST CORNER OF THE JUNCTION OF COURT STREET AND THE STREET ON THE SOUTH SIDE OF THE COURT HOUSE, DIRECTLY SOUTHWEST AND ACROSS THE STREET FROM THE COURT HOUSE FLAG POLE. THE STATION IS A CGS BENCH MARK DISK SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING ABOUT 15 CM ABOVE THE STREET. LOCATED 18.60 M (61.02 FT) NORTHEAST AND</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARLR	
Ref Mon # 2    ARHR	
Ref Mon # 3    ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> N 81	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> USC&GS	<b>County</b> Dallas	<b>Route</b> NA	<b>Job Number:</b> 001914
------------------------	------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	551,856.4001	
<b>Easting (M)</b>	351,823.5820	
<b>Elevation (M)*</b>	75.454	
<b>Northing (SFT)</b>	1,810,548.8727	
<b>Easting (SFT)</b>	1,154,274.5353	
<b>Elevation (SFT)*</b>	247.552	

  

<b>Convergence Angle</b>	0	17	31.2323711
<b>Scale Factor</b>	0.999918470		
<b>Elevation Adjust. Factor</b>	0.9999881589		
<b>Combined Adjust. Factor</b>	0.9999066299		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						None
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM, 1ULM,S 197,K 124 <b>Ref Mon # 2</b> 700014,270005    070003,0700 <b>Ref Mon # 3</b> T 83 N 81 070005 LROC UAM	This station is a NGS 2nd order bench mark.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> NEWSPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> JACKSON	<b>Route</b> 18	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	145,511.6130	
<b>Easting (M)</b>	474,540.2320	
<b>Elevation (M)*</b>	72.460	
<b>Northing (SFT)</b>	477,399.3503	
<b>Easting (SFT)</b>	1,556,887.4112	
<b>Elevation (SFT)*</b>	237.729	

  

<b>Convergence Angle</b>	0	28	44.2199302
<b>Scale Factor</b>	0.999936444		
<b>Elevation Adjust. Factor</b>	0.9999886288		
<b>Combined Adjust. Factor</b>	0.9999250735		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 10 KM (6.20 MI) SOUTH-SOUTHEAST OF TUCKERMAN, 8 KM (4.95 MI) NORTHEAST OF NEWPORT, AT THE MUNICIPAL AIRPORT, NEAR MIDFIELD, ACROSS THE APRON FROM THE AIRPORT OFFICE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF THE APRON AND A CONNECTOR TAXIWAY TO THE RUNWAY. OWNERSHIP--CITY OF NEWPORT, PO BOX 666, NEWPORT AR 72112. AIRPORT MANAGER IS DORSEY BLOCK, PHONE 501-523-3613 OR 523-9628. HOME PHONE IS 579-2351. FIRE STATION PHONE AT THE AIRFIELD IS 523-6099. CALL AHEAD FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 18 ON THE NORTH SIDE OF NEWPORT, GO EAST ON HIGHWAYS 67 AND 18 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HIGHWAY 67 SOUTH ON THE RIGHT. CONTINUE AHEAD, EAST ON HIGHWAY 18 FOR 1.53 KM (0.95 MI) TO WHERE HIGHWAY 18 TURNS NORTH. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 2.21 KM (1.35 MI) TO THE JUNCTION OF HIGHWAY 18S ON THE LEFT. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 0.90 KM (0.55 MI) TO A PAVED Y-JUNCTION. TURN LEFT, NORTHEAST ON VICTORY BOULEVARD FOR 0.64 KM (0.40 MI) TO A GATE AT THE APRON AND THE AIRPORT OFFICE AND FIRE STATION ON THE RIGHT.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> NO. 3	<b>Date Monumented</b> 5/28/1991	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 388	<b>Job Number:</b> OFFICE
-------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1986)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 37,588.8369		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 365,062.3910		<b>Latitude</b> 34 40 17.5167948
<b>Elevation (M)*</b> 		<b>Longitude</b> 92 22 52.2414876
<b>Northing (SFT)</b> 123,322.7091		<b>Ellipsoid Height (M):</b> 
<b>Easting (SFT)</b> 1,197,708.8611		<b>Geoid Height (M):</b> 
<b>Elevation (SFT)*</b> 		<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; width: 100%;"></div>
<b>Convergence Angle</b> 0 13 18.5061251		
<b>Scale Factor</b> 1.000061773		
<b>Elevation Adjust. Factor</b> 		
<b>Combined Adjust. Factor</b> 		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				Geodetic Azimuth	
MK # 2	NONE				Grid Azimuth	
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;"><b>Comments</b></div> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> NO. 4	<b>Date Monumented</b> 5/28/1991	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 388	<b>Job Number:</b> OFFICE
-------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	37,457.2578		
<b>Easting (M)</b>	364,916.1980		
<b>Elevation (M)*</b>	94.428		
<b>Northing (SFT)</b>	122,891.0200		
<b>Easting (SFT)</b>	1,197,229.2263		
<b>Elevation (SFT)*</b>	309.803		

  

<b>Convergence Angle</b>	0	13	21.8356714
<b>Scale Factor</b>	1.000062101		
<b>Elevation Adjust. Factor</b>	0.9999851814		
<b>Combined Adjust. Factor</b>	1.0000472815		

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <span style="border: 1px solid black; padding: 2px;">NONE</span> Ref Mon # 2 <span style="border: 1px solid black; padding: 2px;">NONE</span> Ref Mon # 3 <span style="border: 1px solid black; padding: 2px;">NONE</span>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> O 2	<b>Date Monumented</b> 1/1/1928	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 412/63	<b>Job Number:</b> 100686
-----------------------	------------------------------------	------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 2nd Order by NGS
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 194,812.8339		<b>Latitude</b> 36 5 8.4401952
<b>Easting (M)</b> 484,307.1310		<b>Longitude</b> 91 3 50.0502780
<b>Elevation (M)*</b> 80.452		<b>Ellipsoid Height (M):</b> 52.459
<b>Northing (SFT)</b> 639,148.4392		<b>Geoid Height (M):</b> -27.992
<b>Easting (SFT)</b> 1,588,930.9790		
<b>Elevation (SFT)*</b> 263.950		

  

<b>Convergence Angle</b> 0 32 40.9708048	<b>Location Description</b>
<b>Scale Factor</b> 0.999974146	<p>RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992'0.4 KM (0.25 MI) SOUTHERLY ALONG U.S. HIGHWAY 63 FROM THE POST OFFICE IN POSTIA, IN TOP OF AND 0.3 M (1.0 FT) NORTHWEST OF THE SOUTHEAST END OF THE SOUTHWEST CONCRETE HEADWALL OF A CULVERT UNDER THE BURLINGTON NORTHERN RAILROAD, 37.3 M (122.4 FT) NORTHEAST OF THE HIGHWAY CENTERLINE, 7.3 M (24.0 FT) SOUTHEAST OF THE CENTER OF A PAVED ROAD, 5.1 M (16.7 FT) SOUTHWEST OF THE NEAR RAIL, AND 0.6 M (2.0 FT) BELOW THE LEVEL OF THE TRACK.</p>
<b>Elevation Adjust. Factor</b> 0.9999873746	
<b>Combined Adjust. Factor</b> 0.9999615209	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						380010
MK # 2						183 05 36
MK # 3						182 32 55

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARPG	NGS 1ST ORDER BENCHMARK
Ref Mon # 2 B 316, 380008	
Ref Mon # 3 O 2,	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> OK 1	<b>Date Monumented</b> 11/30/1998	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 412	<b>Job Number:</b> 090024
------------------------	--------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	207,444.3540	
<b>Easting (M)</b>	169,177.2040	
<b>Elevation (M)*</b>	351.869	
<b>Northing (SFT)</b>	680,590.3514	
<b>Easting (SFT)</b>	555,042.2101	
<b>Elevation (SFT)*</b>	1,154.424	

  

<b>Convergence Angle</b>	-1	29	35.5058417
<b>Scale Factor</b>	0.999989176		
<b>Elevation Adjust. Factor</b>	0.9999447833		
<b>Combined Adjust. Factor</b>	0.9999339599		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL SIGNAL LIGHT POLE	355	24.12	79.1
<b>MK # 2</b>	EAST END RCP	308	16.95	55.6
<b>MK # 3</b>	GUY POLE	193	33.15	108.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="OLD MAIN"/> <b>Ref Mon # 2</b> <input type="text" value="FLINT"/> <b>Ref Mon # 3</b> <input type="text" value="V 26"/>	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 10 33.6733284
<b>Longitude</b>	94 33 57.8654352
<b>Ellipsoid Height (M):</b>	323.449
<b>Geoid Height (M):</b>	-28.292

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO WEST ON U.S. HIGHWAY 412 FOR 0.09 KM (0.06 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.814 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 26.187 METERS EAST OF THE CENTER OF U.S. HIGHWAY 59 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "OK 1 1998" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE THE CAP WAS DAMAGED WHILE SETTING THE STATION.05/26/1999 THE POINT WAS DESTROYED BY MAINTENANCE CREWS AND IS GONE.</p>

<b>AZ Mark Station</b>	040022
<b>Geodetic Azimuth</b>	83 21 52.461280
<b>Grid Azimuth</b>	84 51 28.060792

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> OLD MAIN	<b>Date Monumented</b> 8/19/1997	<b>Monumented By</b> NGS	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> NA
----------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	194,614.1249	
<b>Easting (M)</b>	204,534.9070	
<b>Elevation (M)*</b>	433.900	
<b>Northing (SFT)</b>	638,496.5081	
<b>Easting (SFT)</b>	671,044.9407	
<b>Elevation (SFT)*</b>	1,423.554	

  

<b>Convergence Angle</b>	-1	15	45.7867731
<b>Scale Factor</b>	0.999971510		
<b>Elevation Adjust. Factor</b>	0.9999319116		
<b>Combined Adjust. Factor</b>	0.9999034235		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN THE CENTER OF FAYETTEVILLE, ON THE UNIVERSITY OF ARKANSAS CAMPUS, EAST OF OLD MAIN AND OZARK HALL BUILDINGS ON THE EAST SIDE OF THE CAMPUS. TO REACH THE STATION FROM THE WASHINGTON COUNTY COURTHOUSE AT THE SOUTHEAST CORNER OF COLLEGE AVENUE AND DICKSON STREET IN FAYETTEVILLE, GO WEST ON DICKSON STREET FOR 0.6 MI (1.0 KM) TO A SIDE ROAD RIGHT, ARKANSAS AVENUE. TURN RIGHT, NORTH ON ARKANSAS AVENUE FOR 500 FT (152.4 M) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 13 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED APPROXIMATELY 475 FT (144.8 M) WEST OF THE CENTERLINE OF ARKANSAS AVENUE, APPROXIMATELY 300 FT (91.4 M) WEST OF THE CENTERLINE OF RAZORBACK ROAD, 317 FEET (96.6 M) EAST OF THE NORTHEAST CORNER OF OZARK HALL, 72.1 FEET (22.0 M) NORTHEAST OF THE EAST END OF A 4 FOOT (1.2 M) BY 6 FOOT (1.8 M) METAL HATCH TO AN UNDERGROUND ELECTRICAL VAULT, 169.3 FEET (51.6 M) EAST OF A LIGHT POLE, 142.6 FEET (43.5 M) SOUTHEAST OF A LIGHT POLE AND 84 FEET (25.6 M) WEST OF A DRAINAGE SWALE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> OLVEY	<b>Date Monumented</b> 1/1/1954	<b>Monumented By</b> CGS	<b>County</b> BOONE	<b>Route</b> 62	<b>Job Number:</b> R90095
-------------------------	------------------------------------	-----------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	207,878.0925	0.0030			
<b>Easting (M)</b>	313,139.6631	0.0030			
<b>Elevation (M)*</b>	363.566				
<b>Northing (SFT)</b>	682,013.3751				
<b>Easting (SFT)</b>	1,027,359.0447				
<b>Elevation (SFT)*</b>	1,192.799				

  

<b>Convergence Angle</b>	0	33	43.3351728
<b>Scale Factor</b>	0.999994185		
<b>Elevation Adjust. Factor</b>	0.9999429479		
<b>Combined Adjust. Factor</b>	0.9999371332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR Ref Mon # 2    ARRV Ref Mon # 3    ARM3, MOBR	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> OR-01	<b>Date Monumented</b> 2/7/1997	<b>Monumented By</b> NGS	<b>County</b> MO / OREGON	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	229.400	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	752.623	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999640010
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> OZARPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> FRANKLIN	<b>Route</b> 96	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	132,196.4990	
<b>Easting (M)</b>	233,231.4560	
<b>Elevation (M)*</b>	189.880	
<b>Northing (SFT)</b>	433,714.6805	
<b>Easting (SFT)</b>	765,193.5352	
<b>Elevation (SFT)*</b>	622.965	

  

<b>Convergence Angle</b>	-1	4	11.4802027
<b>Scale Factor</b>	0.999936751		
<b>Elevation Adjust. Factor</b>	0.9999702025		
<b>Combined Adjust. Factor</b>	0.9999069554		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 2.7 KM (1.65 MI) NORTH-NORTHWEST OF WEBB CITY, 2.2 KM (1.35 MI) NORTHWEST OF OZARK, 0.6 KM (0.35 MI) SOUTH OF INTERSTATE HIGHWAY 40, AT THE OZARK-FRANKLIN COUNTY AIRPORT, NEAR MIDFIELD BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, ABOUT 75 M (246.1 FT) SOUTHWEST OF THE NORTHEAST END OF A SMALL HILL AND THE BEGINNING OF A ROW OF TREES. OWNERSHIP--CITY OF OZARK, PO BOX 196, OZARK AR 72749, PHONE 501-667-2236. AIRPORT MANAGER IS BILL GRAY, PO BOX 412, OZARK AR 72949, PHONE 501-667-4796. CALL HIM IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 23, ABOUT 5 KM (3.10 MI) NORTHWEST OF OZARK, GO SOUTHERLY ON HIGHWAY 23 FOR 3.06 KM (1.90 MI) TO A PAVED ROAD LEFT. TURN LEFT, EAST, THEN NORTH ON THE ROAD FOR 0.8 KM (0.50 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT AND A LOCKED GATE AT THE APRON. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, THEN BEAR RIGHT, NORTH-NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN RIGHT, NORTHEAST ALONG THE TAXIWAY FOR 0.22 KM (0.15 MI) TO THE STATION ON THE LEFT. THE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b>	ARPORT AZ MK (FG1958)
<b>Geodetic Azimuth</b>	045 47 42.7
<b>Grid Azimuth</b>	046 51 54.2

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 294	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> JOHNSON	<b>Route</b> 64	<b>Job Number:</b> 080320
-------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	123,857.4781				
<b>Easting (M)</b>	274,006.6170				
<b>Elevation (M)*</b>	135.824				
<b>Northing (SFT)</b>	406,355.7427				
<b>Easting (SFT)</b>	898,970.0426				
<b>Elevation (SFT)*</b>	445.616				

  

<b>Convergence Angle</b>	0	48	27.2182302
<b>Scale Factor</b>	0.999939012		
<b>Elevation Adjust. Factor</b>	0.9999786852		
<b>Combined Adjust. Factor</b>	0.9999176985		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	1st Order by NGS		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>			
<b>Latitude</b>	35	26	30.3129096
<b>Longitude</b>	93	23	16.0862460
<b>Ellipsoid Height (M):</b>	106.775		
<b>Geoid Height (M):</b>	-29.049		

  

Location Description
<p>TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 0.25 FEET TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 41.0 FEET AND NORTHEAST 0.60 FEET OF A WITNESS POST. THE MARK IS A STAINLESS STEEL ROD DRIVEN TO REFUSAL AND SET IN A NGS LOGO CAP STAMPED "P 294 1984" FLUSH WITH THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE W/LIGHT	134	2.59	8.5
<b>MK # 2</b>	CHAIN LINK FENCE CORNER	145	2.71	8.9
<b>MK # 3</b>	WATER SIGN	315	22.25	73.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> RUSSPORT	NGS 1st Order Benchmark.
<b>Ref Mon # 2</b> OKHV	
<b>Ref Mon # 3</b> ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 311	<b>Date Monumented</b>	<b>Monumented By</b> NGS	<b>County</b> CRAWFORD	<b>Route</b> 282	<b>Job Number:</b> 040456
-------------------------	------------------------	-----------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	131,890.9841	
<b>Easting (M)</b>	191,972.1090	
<b>Elevation (M)*</b>	205.582	
<b>Northing (SFT)</b>	432,712.3370	
<b>Easting (SFT)</b>	629,828.4943	
<b>Elevation (SFT)*</b>	674.480	

  

<b>Convergence Angle</b>	-1	20	3.8804027
<b>Scale Factor</b>	0.999937002		
<b>Elevation Adjust. Factor</b>	0.9999677385		
<b>Combined Adjust. Factor</b>	0.9999047426		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 170011	
Ref Mon # 2 DQUA, 170012	
Ref Mon # 3 SAL1, 170013	

<b>Vertical Determined By:</b>	1st Order by NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 30 1.1960568
<b>Longitude</b>	94 17 35.5208820
<b>Ellipsoid Height (M):</b>	176.144
<b>Geoid Height (M):</b>	-29.438

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 282 AND THE MISSOURI RAILROAD, IN RUDY, GO SOUTH ON HIGHWAY 282 2.6 MILES TO THE STATION MARK ON THE RIGHT, 29.9' NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 1.0' SOUTHEAST OF A WITNESS POST. (SEE NGS DATA SHEET FOR ADDITIONAL REFERENCES). ACCESS TO THE DATUM POINT IS THROUGH A 5" LOGO CAP.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 314	<b>Date Monumented</b> 1/2/1990	<b>Monumented By</b> NOAA	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
-------------------------	------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	136,257.0382	
<b>Easting (M)</b>	536,314.4193	
<b>Elevation (M)*</b>	64.478	
<b>Northing (SFT)</b>	447,036.6328	
<b>Easting (SFT)</b>	1,759,558.2240	
<b>Elevation (SFT)*</b>	211.542	

  

<b>Convergence Angle</b>	0	52	29.7027423
<b>Scale Factor</b>	0.999936091		
<b>Elevation Adjust. Factor</b>	0.9999898814		
<b>Combined Adjust. Factor</b>	0.9999259730		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 9.04 KM (5.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.3 METERS EAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.80 METERS NORTHEAST OF THE EAST END OF THE MOST NORTHERLY OF 2 CULVERTS, 0.50 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.45 METER WEST OF AN AHTDN WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGA CAP STAMPED "P 314 1990". THE SHOT DISTANCE IS 614.415 METERS.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTH IN LINE WOODEN BRACE POST	10	2.45	8.0
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    W 15 OFFSET</p> <p><b>Ref Mon # 2</b>    MANIPORT</p> <p><b>Ref Mon # 3</b>    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 314A	<b>Date Monumented</b> 10/2/2000	<b>Monumented By</b> AHTD	<b>County</b> POINSETT	<b>Route</b> 63	<b>Job Number:</b> 001849
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	135,647.4541
<b>Easting (M)</b>	536,237.8605
<b>Elevation (M)*</b>	72.318
<b>Northing (SFT)</b>	445,036.6890
<b>Easting (SFT)</b>	1,759,307.0473
<b>Elevation (SFT)*</b>	237.263

  

<b>Convergence Angle</b>	0 52 27.7191057
<b>Scale Factor</b>	0.999936149
<b>Elevation Adjust. Factor</b>	0.9999886511
<b>Combined Adjust. Factor</b>	0.9999248008

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> LEVEL - Unkown Quality	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 32 47.9678496
<b>Longitude</b>	90 29 50.6103756
<b>Ellipsoid Height (M):</b>	44.719
<b>Geoid Height (M):</b>	-27.596

  

<b>Location Description</b>
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 8.38 KM (5.21 MI) TO THE JUNCTION OF STATE HIGHWAY 14 AND THE STATION ON THE LEFT. THE STATION IS 42.25 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 7.74 METERS NORTH OF THE CENTER OF STATE HIGHWAY 14 AND 0.35 METERS SOUTH OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "P 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK P 314. THE SHOT DISTANCE IS 614.415 METERS.</p>

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF A METAL GUARD RAIL P OST	108	3.90	12.8
MK # 2	PUNCH IN TOP OF A METAL GUARD RAIL P OST	183	0.92	3.0
MK # 3	PUNCH IN TOP OF A METAL GUARD RAIL P OST	259	3.95	13.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> W 15 OFFSET <b>Ref Mon # 2</b> MANIPORT <b>Ref Mon # 3</b> MEM2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 315	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 100278
-------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	187,724.2110	
<b>Easting (M)</b>	497,142.5130	
<b>Elevation (M)*</b>	80.485	
<b>Northing (SFT)</b>	615,891.8489	
<b>Easting (SFT)</b>	1,631,041.7281	
<b>Elevation (SFT)*</b>	264.058	

  

<b>Convergence Angle</b>	0	37	37.6928721
<b>Scale Factor</b>	0.999964865		
<b>Elevation Adjust. Factor</b>	0.9999873694		
<b>Combined Adjust. Factor</b>	0.9999522349		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	36	1	14.2108644
<b>Longitude</b>	90	55	20.1295632
<b>Ellipsoid Height:</b>	52.606		
<b>Grid Northing (Meters)</b>	187,724.4752		
<b>Grid Easting (Meters)</b>	497,142.5253		

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) NORTHWEST OF JONESBORO, 4 KM (2.50 MI) SOUTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF HOXIE, ON A NORTH-SOUTH RIDGE BETWEEN A RAILROAD TRACK AND A CANAL, SOUTHWEST OF AND ACROSS A GRAVEL ROAD FROM A FARMHOUSE WITH SEVERAL GRAIN BINS. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 63, 67 AND SOUTHWEST LINDSEY STREET IN EAST HOXIE, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 3.70 KM (2.30 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 91). CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 63 FOR 2.01 KM (1.25 MI) TO THE JUNCTION OF COUNTY ROAD 630 ON THE LEFT AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 64.3 M (211.0 FT) SOUTHEAST OF THE CENTER OF COUNTY ROAD 630, 43.9 M (144.0 FT) NORTHEAST OF THE HIGHWAY CENTER, 15.6 M (51.2 FT) NORTHEAST OF THE NORTHEAST RAIL OF THE TRACKS, 7.7 M (25.3 FT) EAST-SOUTHEAST OF A POWER POLE WITH 8 WIRES, 2.3 M (7.5 FT) NORTHWEST OF A POWER POLE WITH LINES CROSSING THE HIGHWAY AND 0.1 M (0.3 FT) SOUTHEAST OF A</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	128	2.29	7.5
MK # 2	TELEPHONE POLE	252	7.58	24.9
MK # 3	TELEPHONE JUNCTION BOX	26	43.57	142.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160014	THIS STATION IS A NGS BENCH MARK. FIRST ORDER, CLASS 2. ELEVATION = 80.485 METERS NAVD88 DATUM.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> P 315 AZ	<b>Date Monumented</b> 10/28/1997	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 100278
----------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	187,391.6039	
<b>Easting (M)</b>	497,435.3040	
<b>Elevation (M)*</b>	78.447	
<b>Northing (SFT)</b>	614,800.6205	
<b>Easting (SFT)</b>	1,632,002.3265	
<b>Elevation (SFT)*</b>	257.372	

  

<b>Convergence Angle</b>	0	37	44.4122332
<b>Scale Factor</b>	0.999964465		
<b>Elevation Adjust. Factor</b>	0.9999876893		
<b>Combined Adjust. Factor</b>	0.9999521547		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE JUNCTION BOX	125	3.99	13.1
<b>MK # 2</b>	NORTHWEST END OF METAL PIPE	316	30.79	101.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEDGWICK NW BASE	
<b>Ref Mon # 2</b> PARAPORT	
<b>Ref Mon # 3</b> 160014	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 1 3.3072240
<b>Longitude</b>	90 55 8.5828728
<b>Ellipsoid Height (M):</b>	51.069
<b>Geoid Height (M):</b>	-27.874

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 91, LOCATED ABOUT 3.86 KM. (2.40 MI.) SOUTHEAST OF HOXIE, GO SOUTHEAST ON U.S. 63 FOR 2.57 KM. (1.6 MI.) TO THE STATION ON THE RIGHT. 26.93 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 23.259 METERS SOUTHWEST OF THE CENTER OF U.S. 63 AND 0.30 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "P 315 AZ 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 1001	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	625,888.9699	
<b>Easting (M)</b>	383,838.0240	
<b>Elevation (M)*</b>	73.400	
<b>Northing (SFT)</b>	2,053,437.3954	
<b>Easting (SFT)</b>	1,259,308.5837	
<b>Elevation (SFT)*</b>	240.813	

  

<b>Convergence Angle</b>	0	5	55.4485405
<b>Scale Factor</b>	0.999986451		
<b>Elevation Adjust. Factor</b>	0.9999884813		
<b>Combined Adjust. Factor</b>	0.9999749324		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAYS 30 AND 440 IN LITTLE ROCK, GO EAST ON INTERSTATE HIGHWAY 440 FOR ABOUT 7.3 KM (4.55 MI), THEN TURN SOUTH ON FOURCHE DAM PIKE AND GO 0.9 KM (0.55 MI) TO FRAZIER PIKE ROAD. TURN LEFT AND GO EAST, THEN SOUTH FOR 3.7 KM (2.30 MI) TO THE ENTRANCE ROAD TO THE FOURCHE SEWAGE TREATMENT PLANT (BIRDWELL DRIVE). THE STATION IS IN THE NORTHEAST CORNER OF THE INTERSECTION OF FRAZIER PIKE ROAD AND THE ENTRANCE TO THE FOURCHE SEWAGE TREATMENT PLANT, APPROXIMATELY 20.4 METERS (66.9 FT) FROM THE CENTERLINE OF THE ENTRANCE ROAD AND 31.2 METERS (102.4 FT) FROM THE CENTERLINE OF FRAZIER PIKE ROAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 1004	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> PAGIS	<b>County</b> PULASKI	<b>Route</b> 630	<b>Job Number:</b> 060816
------------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	630,619.9940	
<b>Easting (M)</b>	369,343.1730	
<b>Elevation (M)*</b>	112.537	
<b>Northing (SFT)</b>	2,068,959.0970	
<b>Easting (SFT)</b>	1,211,753.3934	
<b>Elevation (SFT)*</b>	369.215	

  

<b>Convergence Angle</b>	0	11	14.5707351
<b>Scale Factor</b>	0.999995341		
<b>Elevation Adjust. Factor</b>	0.9999823396		
<b>Combined Adjust. Factor</b>	0.9999776807		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	43.6215984
<b>Longitude</b>	92	20	5.2389996
<b>Ellipsoid Height:</b>	84.978		
<b>Grid Northing (Meters)</b>	630,620.3754		
<b>Grid Easting (Meters)</b>	369,343.6147		

  

Location Description				
<p>INTERSTATE HIGHWAYS 430 AND 630, ON THE WEST SIDE OF LITTLE ROCK, GO EAST ON INTERSTATE 630 FOR 3.2 M (10.5 FT) TO EXIT 4, FAIR PARK BOULEVARD. FOLLOW OFF RAMP FOR 0.05 MI (0.08 KM) TO FAIR PARK BOULEVARD. TURN LEFT, NORTH ON FAIR PARK BOULEVARD FOR 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT. THE STATION IS 96.3 FT (29.4 M) SOUTH-SOUTHEAST OF THE SOUTH EDGE OF THE SOUTH CURB OF THE ENTRANCE RAMP TO WESTBOUND INTERSTATE HIGHWAY 630, 54.0 FT (16.5 M) WEST-NORTHWEST OF THE NORTH END OF THE WEST CONCRETE BRIDGE GUARDRAIL, 48.6 FT (14.8 M) WEST OF THE WEST EDGE OF THE WEST CURB OF FAIR PARK BOULEVARD, 34.3 FT (10.5 M) WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF A 4 FT (1.2 M) BY 6 FT (1.8 M) CONCRETE SLAB FOR AN ELECTRIC JUNCTION BOX, 28.4 FT (8.7 M) EAST-SOUTHEAST FROM A 12-CM PINE TREE AND 2.8 FT (0.9 M) NORTH OF A METAL WITNESS POST AND FIBERGLASS WITNESS POST. THE STATION IS A ALUMINUM DISK SET INTO THE TOP OF A 5-INCH ROUND CONCRETE POST FLUSH WITH THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	100	15.63	51.3
MK # 2	CENTER OF SOUTH SIDE OF TELEPHONE BOX	65	11.71	38.4
MK # 3	0.15 METER PINE	347	11.63	38.2

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 PAGIS 1004	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 1005	<b>Date Monumented</b> 1/2/1999	<b>Monumented By</b> UAM	<b>County</b> PULASKI	<b>Route</b> 430	<b>Job Number:</b> NA
------------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	51,322.5289				
<b>Easting (M)</b>	364,512.0540				
<b>Elevation (M)*</b>	114.963				
<b>Northing (SFT)</b>	168,380.6636				
<b>Easting (SFT)</b>	1,195,903.2972				
<b>Elevation (SFT)*</b>	377.174				

  

<b>Convergence Angle</b>	0	13	32.3202125
<b>Scale Factor</b>	1.000030004		
<b>Elevation Adjust. Factor</b>	0.9999819589		
<b>Combined Adjust. Factor</b>	1.0000119623		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-430 AND MAUMELLE BLVD., LOCATED IN SOUTHWEST NORTH LITTLE ROCK, GO SOUTH ON I-430 SOUTHBOUND LANE FOR 3.22 KM (2.00 MI) TO THE STATION ON THE RIGHT SET JUST SOUTH OF THE BRIDGE OVER THE ARKANSAS RIVER. THE STATION IS ABOUT 18.64 METERS NORTHWEST OF THE CENTER OF THE SOUTHBOUND LANE OF I-430 AND 0.91 METERS NORTHWEST OF A GUARD RAIL. THE STATION MARK IS AN ALUMINUM CAP SET ON TOP OF A ROUND CONCRETE POST SET FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 AHTD LR 1	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 2001	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA,BB0611
------------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	---------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	627,210.7920	
<b>Easting (M)</b>	383,449.9070	
<b>Elevation (M)*</b>	77.638	
<b>Northing (SFT)</b>	2,057,774.0734	
<b>Easting (SFT)</b>	1,258,035.2365	
<b>Elevation (SFT)*</b>	254.718	

  

<b>Convergence Angle</b>	0	6	4.0356441
<b>Scale Factor</b>	0.999988897		
<b>Elevation Adjust. Factor</b>	0.9999878162		
<b>Combined Adjust. Factor</b>	0.9999767133		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE INTERSECTION OF FOURCHE DAM PIKE AND LINDSEY DRIVE, GO EAST FOR APPROXIMATELY 0.50 MI (0.80 KM) ON LINDSEY DRIVE. THE STATION IS ON TOP OF LEVEE ON THE SOUTHEAST SIDE OF LINDSEY DRIVE, APPROXIMATELY 38.8 FT (11.8 M) FROM THE CENTERLINE OF LINDSEY DRIVE, APPROXIMATELY 91.8 FEET (28.0 M) EAST OF THE EAST ENTRANCE TO THE MID-CONTINENT FUEL COMPANY INC. (8401 LINDSEY). FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>PREVIOUS ELEV. (77.600 m) FROM UNDOCUMENTED SOURCE <span style="float: right;">**UPDATED</span>  ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM  DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 2043	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	622,719.0648	
<b>Easting (M)</b>	366,233.4822	
<b>Elevation (M)*</b>	92.400	
<b>Northing (SFT)</b>	2,043,037.4651	
<b>Easting (SFT)</b>	1,201,551.0162	
<b>Elevation (SFT)*</b>	303.149	

  

<b>Convergence Angle</b>	0	12	22.3698876
<b>Scale Factor</b>	0.999980675		
<b>Elevation Adjust. Factor</b>	0.9999854996		
<b>Combined Adjust. Factor</b>	0.9999661749		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN THE SOUTHWEST PART OF LITTLE ROCK, AT THE SOUTHEAST CORNER OF PRODUCTION DRIVE AND INTERSTATE HIGHWAY 30 ACCESS ROAD, IN PUBLIC RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 30 AND BASELINE ROAD IN THE SOUTHWEST PART OF LITTLE ROCK, GO NORTHEASTERLY ON THE SOUTH ACCESS ROAD OF INTERSTATE HIGHWAY 30 FOR APPROXIMATELY 1.1 KM (0.70 MI) TO THE STATION. THE STATION IS APPROXIMATELY 13.7 METERS (44.9 FT) EAST OF THE CENTERLINE OF PRODUCTION DRIVE, 16.2 METERS (53.1 FT) SOUTH OF THE CENTERLINE OF THE SOUTH ACCESS ROAD FOR INTERSTATE HIGHWAY 30, IN A GRASSY AREA APPROXIMATELY 15.2 METERS (49.9 FT) NORTHWEST OF THE BUILDING LOCATED AT 9621 I-30. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-765-2772.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 2074	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
------------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	634,218.5350				
<b>Easting (M)</b>	357,610.0710				
<b>Elevation (M)*</b>	172.300				
<b>Northing (SFT)</b>	2,080,765.3102				
<b>Easting (SFT)</b>	1,173,259.0413				
<b>Elevation (SFT)*</b>	565.288				

  

<b>Convergence Angle</b>	0	15	33.1002784
<b>Scale Factor</b>	1.000002433		
<b>Elevation Adjust. Factor</b>	0.9999729612		
<b>Combined Adjust. Factor</b>	0.9999753942		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN THE WESTERN PART OF LITTLE ROCK, IN THE GRASS MEDIAN OF CHENAL PARKWAY (PUBLIC STREET RIGHT-OF-WAY) BETWEEN CHENAL VALLEY DR. AND CHENAL CLUB BLVD. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND CHENAL PARKWAY, GO SOUTH ON CHENAL PARKWAY FOR APPROXIMATELY 4.9 KM (3.05 MI) TO THE STATION. THE STATION IS IN THE CENTER GRASS MEDIAN APPROXIMATELY 10.7 METERS (35.1 FT) FROM THE BACK OF THE NORTHERLY CURB OF CHENAL PARKWAY AND APPROXIMATELY 217.6 METERS (713.9 FT) NORTHWESTERLY FROM THE CENTERLINE OF CHENAL VALLEY DRIVE. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 2092	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
------------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	60,218.8590	
<b>Easting (M)</b>	342,274.7610	
<b>Elevation (M)*</b>	102.559	
<b>Northing (SFT)</b>	197,568.0399	
<b>Easting (SFT)</b>	1,122,946.4450	
<b>Elevation (SFT)*</b>	336.479	

  

<b>Convergence Angle</b>	0	22	2.6270617
<b>Scale Factor</b>	1.000012100		
<b>Elevation Adjust. Factor</b>	0.9999839054		
<b>Combined Adjust. Factor</b>	0.9999960052		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STAION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 3.19 KM (1.98 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.60 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 1.00 METERS SOUTH OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTH OF AN AHTD WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN CONCRETE STAMPED "PAGIS 2092 1990".			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b> ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.
<b>Ref Mon # 1</b> ROCKPORT	
<b>Ref Mon # 2</b> SALIPORT	
<b>Ref Mon # 3</b> PJTC CAMPUS	

  

<b>AZ Mark Station</b>	600037
<b>Geodetic Azimuth</b>	252 56 11.78460
<b>Grid Azimuth</b>	253 18 14.45444

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PAGIS 2093	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> AHTD	<b>County</b> PULASKI	<b>Route</b> 10	<b>Job Number:</b> 060884
------------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	60,354.2760	
<b>Easting (M)</b>	332,431.7160	
<b>Elevation (M)*</b>	121.752	
<b>Northing (SFT)</b>	198,012.3205	
<b>Easting (SFT)</b>	1,090,653.0549	
<b>Elevation (SFT)*</b>	399.448	

  

<b>Convergence Angle</b>	0	25	48.1708439
<b>Scale Factor</b>	1.000011971		
<b>Elevation Adjust. Factor</b>	0.9999808935		
<b>Combined Adjust. Factor</b>	0.9999928643		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	199	7.55	24.8
MK # 2	0.50 METER RCP	35	7.88	25.9
MK # 3	GUY POLE	70	20.23	66.4

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM T-5 REBAR/CAP ON JOB 001837 ELEVATION = 122.691 METERS NAVD88 DATUM.
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
PAGIS UALR 16		PAGIS	PULASKI	630	060816,061381

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	629,980.4751	
<b>Easting (M)</b>	374,316.2947	
<b>Elevation (M)*</b>	105.670	
<b>Northing (SFT)</b>	2,066,860.9421	
<b>Easting (SFT)</b>	1,228,069.3769	
<b>Elevation (SFT)*</b>	346.686	

  

<b>Convergence Angle</b>	0	9	25.1045502
<b>Scale Factor</b>	0.999994127		
<b>Elevation Adjust. Factor</b>	0.9999834172		
<b>Combined Adjust. Factor</b>	0.9999775443		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	44	23.3539440
<b>Longitude</b>	92	16	49.6563204
<b>Ellipsoid Height:</b>	78.166		
<b>Grid Northing (Meters)</b>	629,980.8733		
<b>Grid Easting (Meters)</b>	374,316.7190		

  

Location Description				
THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND STATE STREET INTERCHANGE. 12.60 METERS NORTH OF THE CENTER OF A PAVED STREET, 7.85 METERS EAST OF THE CENTER OF STATE STREET AND 1.675 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN A CONCRETE POST.				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	"X" CUT IN SOUTHEAST CORNER OF BRIDG	9	3.30	10.8	
MK # 2	"X" CUT IN SOUTHWEST CORNER OF BRID	300	19.15	62.8	
MK # 3	LIGHT POLE	280	20.40	66.9	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ADAMS 2 Ref Mon # 2    ROCKPORT Ref Mon # 3    PAGIS 1004	ELEVATION BY THREE WIRE LEVELING USING A.H.T.D. BM DISK SET IN THE NW WINGWALL OF THE STATE STREET BR. OVER I-630. ELEV = 100.484 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT BY USING VERTCON TO CONVERT FROM NGVD29 TO NAVD88 DATUM.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PARAPORT	<b>Date Monumented</b> 1/2/2000	<b>Monumented By</b> NGS	<b>County</b> Greene	<b>Route</b> 49	<b>Job Number:</b> 100632
----------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	192,700.8037	
<b>Easting (M)</b>	534,163.9357	
<b>Elevation (M)*</b>	87.996	
<b>Northing (SFT)</b>	632,219.2201	
<b>Easting (SFT)</b>	1,752,502.8457	
<b>Elevation (SFT)*</b>	288.700	

  

<b>Convergence Angle</b>	0	51	59.7453623
<b>Scale Factor</b>	0.999970490		
<b>Elevation Adjust. Factor</b>	0.9999861907		
<b>Combined Adjust. Factor</b>	0.9999566812		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	3	39.9982799
<b>Longitude</b>	90	30	38.6848699
<b>Ellipsoid Height:</b>	59.813		
<b>Grid Northing (Meters)</b>	192,700.7953		
<b>Grid Easting (Meters)</b>	534,163.9030		

  

Location Description			
<p>TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 1.11 KM (0.69 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE PAVED ROAD FOR 0.46 KM (0.29 MI) TO A PAVED ROAD ON THE RIGHT. TURN A VERY SHARP RIGHT AND GO EAST ON THE PAVED ROAD FOR 0.1 KM (0.1 MI) TO AN APRON, TAXIWAY AND THE AIRPORT OFFICE ON THE RIGHT. CONTINUE EAST ACROSS APRON AND TAXIWAY FOR 0.19 KM (0.12 MI) TO THE RUNWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP. IT IS SET 42.25 M (138.62 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF A APRON, 37.0 M (121.4 FT) NORTHWEST FROM RUNWAY CENTERLINE, 21.15M (69.39 FT) NORTH-NORTHEAST FROM TAXIWAY CENTERLINE AND 13.7 M (44.9 FT) NORTH OF A BLUE TAXIWAY LIGHT.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p. Position determined by static GPS observation in May 2015 by crew s5102.
Ref Mon # 2 MODP	
Ref Mon # 3 MOKE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PJTC CAMPUS	<b>Date Monumented</b> 8/19/1997	<b>Monumented By</b> ARGLS	<b>County</b> CONWAY	<b>Route</b> I40	<b>Job Number:</b> NA
-------------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2002)	
<b>Northing (M)</b>	93,358.9459	
<b>Easting (M)</b>	333,872.1742	
<b>Elevation (M)*</b>	103.705	
<b>Northing (SFT)</b>	306,295.1417	
<b>Easting (SFT)</b>	1,095,378.9582	
<b>Elevation (SFT)*</b>	340.238	

  

<b>Convergence Angle</b>	0	25	20.7426589
<b>Scale Factor</b>	0.999961578		
<b>Elevation Adjust. Factor</b>	0.9999837256		
<b>Combined Adjust. Factor</b>	0.9999453042		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	35	10	21.5435172
<b>Longitude</b>	92	43	33.4134516
<b>Ellipsoid Height:</b>	75.170		
<b>Grid Northing (Meters)</b>	93,358.9481		
<b>Grid Easting (Meters)</b>	333,872.1590		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TOP OPERATING NUT OF A FIRE HYDRANT	WEST	16.30	53.5
<b>MK # 2</b>	CENTERLINE OF AN ASPHALT DRIVE	SOUTH	19.40	63.6
<b>MK # 3</b>	DRAINAGE SWALE	WEST	2.70	8.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid96
<b>Latitude</b>	35 10 21.5434488
<b>Longitude</b>	92 43 33.4128504
<b>Ellipsoid Height (M):</b>	75.289
<b>Geoid Height (M):</b>	-28.416

Location Description
<p>THE STATION IS IN THE NORTHERN PART OF MORRILTON, ON THE PETIT JEAN TECHNICAL COLLEGE, ON THE EAST SIDE OF THE TECHNOLOGY II BUILDING. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 9 (EXIT 108) IN MORRILTON, GO SOUTH ON HIGHWAY 9 FOR 0.30 MI (0.48 KM) TO BRUCE STREET ON THE RIGHT. TURN RIGHT, NORTHWEST ON BRUCE STREET ALONG THE NORTH SIDE OF THE COLLEGE BUILDINGS AND AROUND THE TECHNOLOGY II BUILDING FOR 0.5 MI (0.8 KM) TO THE STATION ON THE RIGHT. THE STATION IS SET IN A 12 INCH DIAMETER ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 34 FT (10.4 M) SOUTH OF THE SOUTH EDGE OF AN ASPHALT PARKING AREA, 106.3 FT (32.4 M) SOUTHEAST OF THE NORTHEAST CORNER OF THE TECHNOLOGY II BUILDING, 194.3 FT (59.2 M) NORTHEAST OF THE SOUTHEAST CORNER OF THE SAME BUILDING.</p>

<b>AZ Mark Station</b>	<input style="width: 150px;" type="text"/>
<b>Geodetic Azimuth</b>	<input style="width: 150px;" type="text"/>
<b>Grid Azimuth</b>	<input style="width: 150px;" type="text"/>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> PLEASANT	<b>Date Monumented</b> 1/1/1941	<b>Monumented By</b> NGS	<b>County</b> HOT SPRING	<b>Route</b> 7	<b>Job Number:</b> 061021
----------------------------	------------------------------------	-----------------------------	-----------------------------	-------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 587,601.4909		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 293,537.0920		<b>Latitude</b> 34 21 9.6055488
<b>Elevation (M)*</b> 		<b>Longitude</b> 93 9 26.2478376
<b>Northing (SFT)</b> 1,927,822.5581		<b>Ellipsoid Height (M):</b> 0.000
<b>Easting (SFT)</b> 963,046.2760		<b>Geoid Height (M):</b> -27.070
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> 0 38 51.8101137	<b>Scale Factor</b> 0.999933845
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b> 	
<b>Latitude</b> 	
<b>Longitude</b> 	
<b>Ellipsoid Height:</b> 	
<b>Grid Northing (Meters)</b> 	
<b>Grid Easting (Meters)</b> 	

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 ARKANSAS FORESTRY COMM LOT 5 4	255 18	10.00	32.8	PLEASANT AZ MK RESET
MK # 2 PLEASANT RM1	255 25	8.37	27.5	Geodetic Azimuth 346 32 02.7
MK # 3 PLEASANT RM2	326 00	14.46	47.5	Grid Azimuth 347 10 54.5

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/>	
Ref Mon # 2 <input style="width: 150px;" type="text"/>	
Ref Mon # 3 <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> POCAPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> RANDOLPH	<b>Route</b> 67	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	212,639.4100	
<b>Easting (M)</b>	493,864.5710	
<b>Elevation (M)*</b>	82.860	
<b>Northing (SFT)</b>	697,634.4643	
<b>Easting (SFT)</b>	1,620,287.3467	
<b>Elevation (SFT)*</b>	271.850	

  

<b>Convergence Angle</b>	0	36	27.6571571
<b>Scale Factor</b>	1.000002424		
<b>Elevation Adjust. Factor</b>	0.9999869967		
<b>Combined Adjust. Factor</b>	0.9999894207		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) NORTHEAST OF IMBODEN, 19 KM (11.80 MI) NORTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF POCAHONTAS, AT NICK WILSON FIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND MIDFIELD CONNECTOR, EAST OF AND ACROSS THE APRON AND PARALLEL TAXIWAY FROM THE ADMINISTRATION BUILDING. OWNERSHIP--CITY OF POCAHONTAS, 2006 AIRWAYS LANE, POCAHONTAS AR 72455. AIRPORT MANAGER IS GREG SWINK, PHONE 501-892-5606, 869-2260. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS, GO SOUTH ON HIGHWAY 67 FOR 1.87 KM (1.15 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, EAST ON THE ROAD FOR 0.11 KM (0.05 MI) TO A GATE ON THE NORTH SIDE OF THE AIRPORT OFFICE AND FIRE DEPARTMENT. PASS THROUGH THE GATE AND BEAR RIGHT, EAST-SOUTHEAST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 43.3 M (142.1</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
OCAPORT AZ M	1/1/1990	NGS	RANDOLPH	67	100877

  

<b>Zone</b>	<b>Zone Code</b>		
Arkansas North	301		
<b>Horizontal Datum</b>	NAD83 (2011)		
<b>Northing (M)</b>	212,066.4270	0.0020	
<b>Easting (M)</b>	493,844.9816	0.0020	
<b>Elevation (M)*</b>	82.600		
<b>Northing (SFT)</b>	695,754.6026		
<b>Easting (SFT)</b>	1,620,223.0771		
<b>Elevation (SFT)*</b>	270.997		

  

<b>Convergence Angle</b>	0	36	27.0590372
<b>Scale Factor</b>	1.000001388		
<b>Elevation Adjust. Factor</b>	0.9999870375		
<b>Combined Adjust. Factor</b>	0.9999884255		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>STATION IS LOCATED ABOUT 20.9 KM (13.0 MI) NORTHEAST OF IMBODEN, 19.3 KM (12.0 MI) NORTH OF WALNUT RIDGE, AND 3.1 KM (1.9 MI) SOUTHEAST OF POCAHONTAS. AT THE POCAHONTAS MUNICIPAL AIRPORT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS GO SOUTH ON U.S. HIGHWAY 67 FOR 1.87 KM (1.16 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO EAST ON THE AIRPORT ENTRANCE ROAD FOR 100 FT (30.5 M) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTHERLY ON THE PAVED ROAD PASSING AROUND THE NORTH END OF A HANGER FOR 0.17 KM (0.11 MI) TO AN APRON. TURN RIGHT AND GO SOUTH ON THE APRON FOR 0.14 KM (0.09 MI) TO A TAXIWAY ON THE LEFT. TURN LEFT AND GO EAST ON TAXIWAY FOR 0.08 KM (0.05 MI) TO THE RUNWAY. TURN RIGHT AND SOUTH ON THE RUNWAY FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5 INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 12.8 M (42.0 FT) EAST OF A RIGHT OF WAY FENCE, 11.6 M (38.1 FT) WEST OF THE WEST EDGE OF A TURN AROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: MODP	<p>Elevation from NGS datasheet.</p>
Ref Mon # 2: ARPG	
Ref Mon # 3: ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> POCOLA	<b>Date Monumented</b> 1/1/1993	<b>Monumented By</b> NGS	<b>County</b> OK / LEFLORE	<b>Route</b> N/A	<b>Job Number:</b> NA
--------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	108,230.9611	
<b>Easting (M)</b>	176,549.5430	
<b>Elevation (M)*</b>	164.600	
<b>Northing (SFT)</b>	355,087.7449	
<b>Easting (SFT)</b>	579,229.6257	
<b>Elevation (SFT)*</b>	540.025	

  

<b>Convergence Angle</b>	-1	25	46.2537541
<b>Scale Factor</b>	0.999949607		
<b>Elevation Adjust. Factor</b>	0.9999741696		
<b>Combined Adjust. Factor</b>	0.9999237779		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
STATION IS LOCATED ABOUT 4 KM (2.50 MI) NORTH-NORTHEAST OF POCOLA, 2 KM (1.25 MI) EAST OF THE ARKANSAS STATE LINE, ALONG A ROAD PARALLELING HIGHWAYS 112 AND 271, NEAR THE ENTRANCE TO THE TRI-STATE SPEEDWAY, ALONG A FENCE SEPARATING THE ROAD FROM A BANK EDGE, ABOUT 20 M (65.6 FT) ABOVE THE HIGHWAYS, IN THE NORTHEAST 1/4 OF SECTION 12, T 11 N, R 23 E. OWNERSHIP--OKLAHOMA DEPARTMENT OF TRANSPORTATION. TO REACH FOM THE JUNCTION OF U.S. HIGHWAY 271 AND STATE HIGHWAYS 9 AND 112 (N. POCOLA BLVD), ABOUT 3 KM (1.85 MI) NORTH OF POCOLA, GO EAST ON HIGHWAYS 112 AND 271 FOR 1.08 KM (0.65 MI) TO THE BRIDGE OVER CEDAR CREEK. CONTINUE AHEAD, EAST, FOR 0.66 KM (0.40 MI) TO THE SECOND OF TWO PAVED ROADS LEFT. TURN LEFT, NORTHWEST, THEN NORTHEAST, UPHILL FOR 0.50 KM (0.30 MI) TO THE STATION ON THE LEFT, 0.06 KM (0.05 MI) BEFORE A PAVED ROAD LEFT. STATION MARK IS A SURVEY DISK SET IN THE EASTERN END OF A EXPOSED BEDROCK RIDGE. IT IS 15.8 M (51.8 FT) NORTH-NORTHWEST OF, AND 2 M (6.6 FT) HIGHER THAN THE ROAD CENTER, 1.55 M (5.09 FT) EAST-NORTHEAST OF A METAL WITNESS POST, 30.2 M (99.1 FT) WEST-SOUTHWEST OF A HIGH VOLTAGE POWERLINE POLE, 19.8 M (65.0 FT) SOUTHWEST OF 16-INCH				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 189	<b>Date Monumented</b> 1/1/1956	<b>Monumented By</b> USC&GS	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
-------------------------	------------------------------------	--------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	230,422.1171	
<b>Easting (M)</b>	560,967.5400	
<b>Elevation (M)*</b>	121.126	
<b>Northing (SFT)</b>	755,976.5625	
<b>Easting (SFT)</b>	1,840,441.0042	
<b>Elevation (SFT)*</b>	397.394	

  

<b>Convergence Angle</b>	1	2	38.8727503
<b>Scale Factor</b>	1.000036453		
<b>Elevation Adjust. Factor</b>	0.9999809917		
<b>Combined Adjust. Factor</b>	1.0000174440		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE POST OFFICE IN PIGGOTT, GO WEST ON HWY. 62 FOR 2.41 KM (1.50 MILES) TO THE STATION ON THE RIGHT AT THE TOP OF A LONG GRADE DESCENDING TO THE NORTHWEST. THE STATION IS 10.80 METERS NORTHEAST OF THE CENTERLINE OF HWY. 62 AND 0.31 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD BRASS CAP SET ON TOP OF A CONCRETE POST THAT PROJECTS THREE (3) INCHES.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	157	5.40	17.7
MK # 2	12" METAL PIPE	200	5.80	19.0
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1: CORNPORT</p> <p>Ref Mon # 2: HOPEWELL</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: R00119 and R00125</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 205	<b>Date Monumented</b> 1/1/1962	<b>Monumented By</b> CGS	<b>County</b> WHITE	<b>Route</b> 13	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	108,572.0631	
<b>Easting (M)</b>	430,898.1130	
<b>Elevation (M)*</b>	125.198	
<b>Northing (SFT)</b>	356,206.8437	
<b>Easting (SFT)</b>	1,413,704.8924	
<b>Elevation (SFT)*</b>	410.754	

  

<b>Convergence Angle</b>	0	11	51.7817602
<b>Scale Factor</b>	0.999947201		
<b>Elevation Adjust. Factor</b>	0.9999803527		
<b>Combined Adjust. Factor</b>	0.9999275548		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) NORTHEAST OF SEARCY, 3 KM (1.85 MI) NORTHWEST OF JUDSONIA, 2 KM (1.25 MI) NORTHWEST OF U.S. HIGHWAY 67, NORTHEAST OF AND ACROSS THE HIGHWAY FROM A TWO STORY LOG HOME, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF STATE HIGHWAYS 13 AND 157, AND IN THE ROAD RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 157 (EXIT 51) ABOUT 6 KM (3.70 MI) SOUTHWEST OF BALD KNOB, GO NORTHWEST AND WEST ON HIGHWAY 157 FOR 1.72 KM (1.05 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 13). TURN LEFT, SOUTH ON HIGHWAY 13 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS SET NEAR THE NORTH END OF THE TOP OF A CONCRETE HEADWALL OF A CULVERT UNDER THE HIGHWAY AND IS FLUSH WITH THE GROUND. IT IS 37.6 M (123.4 FT) SOUTH OF THE EXTENDED CENTER OF A PAVED DRIVE TO A BRICK HOUSE WITH A SEPARATE TWO CAR GARAGE, 11.5 M (37.7 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 5.1 M (16.7 FT) EAST OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 4.0 M (13.1 FT) NORTH OF THE WEST ONE OF THREE LEGS OF A STEEL HIGHWAY SIGN, 4.0 M (13.1 FT) WEST OF A</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 28	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> NGS	<b>County</b> CRAWFORD	<b>Route</b> NA	<b>Job Number:</b> 040456, 4594
------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	125,702.0860				
<b>Easting (M)</b>	187,963.8730				
<b>Elevation (M)*</b>	140.247				
<b>Northing (SFT)</b>	412,407.5938				
<b>Easting (SFT)</b>	616,678.1400				
<b>Elevation (SFT)*</b>	460.127				

  

<b>Convergence Angle</b>	-1	21	33.0164611
<b>Scale Factor</b>	0.999938928		
<b>Elevation Adjust. Factor</b>	0.9999779912		
<b>Combined Adjust. Factor</b>	0.9999169205		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
IN VAN BUREN AT THE JUNCTION OF 22nd STREET AND ALMA BOULEVARD, 40.4' SOUTH OF THE CENTERLINE OF THE BOULEVARD AND SET IN A CONCRETE POST 0.2' ABOVE THE GROUND.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARFY, 170011 Ref Mon # 2    DQUA, 170012 Ref Mon # 3    SAL1, 170013	<b>Comments</b>  <div style="height: 100px;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 292	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> POPE	<b>Route</b> 64	<b>Job Number:</b> 080295
-------------------------	------------------------------------	-----------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	106,372.1601	
<b>Easting (M)</b>	294,345.0650	
<b>Elevation (M)*</b>	110.274	
<b>Northing (SFT)</b>	348,989.3286	
<b>Easting (SFT)</b>	965,697.1008	
<b>Elevation (SFT)*</b>	361.790	

  

<b>Convergence Angle</b>	0	40	33.2098867
<b>Scale Factor</b>	0.999949357		
<b>Elevation Adjust. Factor</b>	0.9999826947		
<b>Combined Adjust. Factor</b>	0.9999320526		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY	115	0.76	2.5
<b>MK # 2</b>	SE CORNER OF BLK BLDGING	4	26.21	86.0
<b>MK # 3</b>	SW CORNER OF BRICK BLDGING	65	23.95	78.6

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> DQUA	NGS 1st Order Mark

  

Location Description			
TO REACH THE STATION MARK FORM THE JUNCTION OF STAT HIGHWAY 64 AND STATE HIGHWAY 326, ON THE WEST EDGE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 64 FOR 1.2 MILES TO THE STATION MARK ON THE LEFT, 126.5 FEET SOUTHEAST OF THE CENTERLINE OF FAIRBANKS AVE. AND NORTHEAST 52.5 FEET OF THE CENTERLINE OF HIGHWAY 64, AND 0.6 FEET EAST OF A WITNESS POST. THE STATION MARK IS AN NGS ROD MARK DRIVEN TO REFUSAL AND IS UNDER A NGS LOGO CAP.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 299	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> AHTD	<b>County</b> SCOTT	<b>Route</b> 71	<b>Job Number:</b> R40024
-------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	68,373.6590
<b>Easting (M)</b>	207,964.5690
<b>Elevation (M)*</b>	201.529
<b>Northing (SFT)</b>	224,322.5796
<b>Easting (SFT)</b>	682,297.0901
<b>Elevation (SFT)*</b>	661.183

  

<b>Convergence Angle</b>	-1	13	23.3843174
<b>Scale Factor</b>	1.000000433		
<b>Elevation Adjust. Factor</b>	0.9999683745		
<b>Combined Adjust. Factor</b>	0.9999688075		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	34	55	52.1659200
<b>Longitude</b>	94	6	7.2535896
<b>Ellipsoid Height:</b>	170.356		
<b>Grid Northing (Meters)</b>	68,373.9128		
<b>Grid Easting (Meters)</b>	207,964.8384		

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) EAST OF THE ARKANSAS-OKLAHOMA BORDER, 4 KM (2.50 MI) NORTH OF WALDRON, ABOUT 100 M (328.1 FT) NORTH OF THE JUNCTION OF U.S. HIGHWAYS 71 AND 71B, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 80 ON THE WEST SIDE OF WALDRON, GO NORTH ON HIGHWAY 71 FOR 3.68 KM (2.30 MI) TO THE JUNCTION OF HIGHWAY 71B ON THE RIGHT. CONTINUE NORTH ON HIGHWAY 71 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT JUST BEFORE A FIELD ENTRANCE ROAD. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 29.5 M (96.8 FT) EAST OF THE EXTENDED CENTERLINE OF THE HIGHWAY (THE HIGHWAY HERE HAS A DIVIDING ISLAND BETWEEN THE NORTH AND SOUTHBOUND LANES OF THE HIGHWAY), 19.5 M (64.0 FT) NORTH OF POWERLINE POLE NUMBER 100-91, 16.2 M (53.1 FT) EAST-SOUTHEAST OF THE SOUTH END OF A CULVERT, 9.6 M (31.5 FT) SOUTH OF THE CENTER OF THE FIELD ENTRANCE ROAD, 0.4 M (1.3 FT) WEST OF A FENCE, 0.3 M (1.0 FT) SOUTHWEST OF</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    PINNACLE</p> <p>Ref Mon # 2    MENAPORT</p> <p>Ref Mon # 3    ABBOTT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 313	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NOAA	<b>County</b> SHARP	<b>Route</b> 63	<b>Job Number:</b> 050064
-------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	219,685.8131	
<b>Easting (M)</b>	447,994.4380	
<b>Elevation (M)*</b>	114.362	
<b>Northing (SFT)</b>	720,752.5385	
<b>Easting (SFT)</b>	1,469,795.0853	
<b>Elevation (SFT)*</b>	375.203	

  

<b>Convergence Angle</b>	0	18	39.5060047
<b>Scale Factor</b>	1.000016562		
<b>Elevation Adjust. Factor</b>	0.9999820532		
<b>Combined Adjust. Factor</b>	0.9999986149		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF HARDY, ABOUT MIDWAY DOWN A LOW HILL SLOPING EAST, AND IN THE HIGHWAY RIGHT-OF-WAY BETWEEN THE HIGHWAY AND A RAILROAD TRACK. OWNERSHIP-- ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 2.1 KM (1.30 MI) TO THE STATION ON THE RIGHT ABOUT 0.16 KM (0.10 MI) BEFORE A RIVER CROSSING. THE STATION IS SET FLUSH IN THE TOP OF A 0.3 M (1.0 FT) X 0.6 M (2.0 FT) AREA OF EXPOSED ROCK OUTCROP PROJECTING 12 CM ABOVE GROUND. IT IS 23.9 M (78.4 FT) WEST-NORTHWEST OF THE EXTENDED CENTER OF A GRAVEL ROAD LEADING NORTH, 17.1 M (56.1 FT) SOUTH-SOUTHWEST OF AND 0.4 M (1.3 FT) LOWER THAN THE HIGHWAY CENTER, 11.8 M (38.7 FT) NORTH-NORTHEAST OF AND ABOUT 4 M (13.1 FT) HIGHER THAN THE NORTH RAIL OF THE RAILROAD TRACKS (SLOPE MEASUREMENT) AND 1.1 M (3.6 FT) NORTH-NORTHEAST OF A POWERLINE POLE AND FIBERGLASS WITNESS POST.</p>			

  

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    FAA 7M9 A</p> <p>Ref Mon # 2    OR-01</p> <p>Ref Mon # 3    Q 313</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 313A	<b>Date Monumented</b> 1/12/1998	<b>Monumented By</b> AHTD	<b>County</b> SHARP	<b>Route</b> 63	<b>Job Number:</b> 050064
--------------------------	-------------------------------------	------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Northing (M)</b>	219,582.8030		
<b>Easting (M)</b>	448,268.2870		
<b>Elevation (M)*</b>	112.392		
<b>Northing (SFT)</b>	720,414.5795		
<b>Easting (SFT)</b>	1,470,693.5383		
<b>Elevation (SFT)*</b>	368.739		

  

<b>Convergence Angle</b>	0	18	45.8804948
<b>Scale Factor</b>	1.000016353		
<b>Elevation Adjust. Factor</b>	0.9999823623		
<b>Combined Adjust. Factor</b>	0.9999987151		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GUY POLE	122	8.54	28.0
<b>MK # 2</b>	RAILROAD SIGNAL LIGHT	175	21.38	70.1
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> FAA 7M9 A	
<b>Ref Mon # 2</b> OR-01	
<b>Ref Mon # 3</b> Q 313	

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36   18   40.7936664
<b>Longitude</b>	91   27   45.1620864
<b>Ellipsoid Height (M):</b>	84.119
<b>Geoid Height (M):</b>	-28.283

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND 63 IN HARDY, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 2.39 KM (1.49 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.099 METERS NORTH OF THE NORTH RAIL, 14.052 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMED "Q 313A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Q 68	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> USC & GS	<b>County</b> FAULKNER	<b>Route</b> 25	<b>Job Number:</b> 012227
------------------------	------------------------------------	----------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	110,002.1902	0.0020			
<b>Easting (M)</b>	374,481.7937	0.0020			
<b>Elevation (M)*</b>	251.373				
<b>Northing (SFT)</b>	360,898.8523				
<b>Easting (SFT)</b>	1,228,612.3515				
<b>Elevation (SFT)*</b>	824.713				

  

<b>Convergence Angle</b>	0	9	47.9426449
<b>Scale Factor</b>	0.999946150		
<b>Elevation Adjust. Factor</b>	0.9999605529		
<b>Combined Adjust. Factor</b>	0.9999067051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 &amp; Q 68 IN SEPT. 2015 AND MISSED Q 68 BY -0.0356' WHEN CONSTRAINING Y 68, ARBT &amp; ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.         </td> </tr> </table>	Comments	S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Q 68 BY -0.0356' WHEN CONSTRAINING Y 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.
Comments			
S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Q 68 BY -0.0356' WHEN CONSTRAINING Y 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> R 143	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> CGS	<b>County</b> MADISON	<b>Route</b> CR 1455	<b>Job Number:</b> 090435
-------------------------	------------------------------------	-----------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	201,155.1146	0.0020	
<b>Easting (M)</b>	248,827.1288	0.0020	
<b>Elevation (M)*</b>	419.770		
<b>Northing (SFT)</b>	659,956.4052		
<b>Easting (SFT)</b>	816,360.3384		
<b>Elevation (SFT)*</b>	1,377.195		

  

<b>Convergence Angle</b>	0	58	38.5389569
<b>Scale Factor</b>	0.999982014		
<b>Elevation Adjust. Factor</b>	0.9999341287		
<b>Combined Adjust. Factor</b>	0.9999161439		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>DESCRIBED BY COAST AND GEODETIC SURVEY 1935 5.1 MILES NORTHEAST ALONG STATE HIGHWAY 68 FROM THE COURTHOUSE AT HUNTSVILLE, MADISON COUNTY, AT OLD ALABAM, 150 FEET EAST OF THE SOUTHEAST CORNER OF THE J.D. SMITH STORE, 105 FEET EAST OF THE JUNCTION OF THE HIGHWAY WITH A ROAD LEADING NORTH TO FORUM, 42 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 23 FEET WEST OF THE SOUTHWEST CORNER OF THE OLD ALABAM SCHOOLHOUSE AND CHURCH, AND 1 FOOT NORTH OF A CEMETERY FENCE. A STANDARD DISK, STAMPED R 143 1935 AND SET IN THE TOP OF A CONCRETE POST.</p> <p style="text-align: right;">STATION RECOVERY (1971) RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1971 (ILC) BENCH MARK R 143 IS A STANDARD DISK, STAMPED R 143 1935, SET IN THE TOP OF A 4-INCH SQUARE CONCRETE MONUMENT, THAT IS FLUSH WITH THE GROUND SURFACE. IT IS 30.1 FEET SOUTHWEST OF THE NORTHWEST CORNER OF THE CHURCH BUILDING, 22.6 FEET WEST OF THE SOUTHWEST CORNER OF GF0538 THE CHURCH BUILDING AND 4.0 FEET NORTHEAST OF A FENCE AROUND A CEMETERY.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	<p>USED AS A VERTICAL CONSTRAINT IN STATIC JOB #090435. PERFORMED PRELIMINARY NETWORK ADJUSTMENT IN TBC NOT HOLDING R 143 FIXED AND MISCLOSURE WAS ONLY -0.0052' FROM NGS PUBLISHED ELEV.</p>
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> R 315 1990	<b>Date Monumented</b>	<b>Monumented By</b> NOAA	<b>County</b> CRAIGHEAD	<b>Route</b> 63	<b>Job Number:</b> 100293, 100869
------------------------------	------------------------	------------------------------	----------------------------	--------------------	--------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	176,061.7203 0.0020
<b>Easting (M)</b>	507,852.5665 0.0030
<b>Elevation (M)*</b>	78.898
<b>Northing (SFT)</b>	577,629.1607
<b>Easting (SFT)</b>	1,666,179.6286
<b>Elevation (SFT)*</b>	258.851

  

<b>Convergence Angle</b>	0 41 43.2930142
<b>Scale Factor</b>	0.999952488
<b>Elevation Adjust. Factor</b>	0.9999876185
<b>Combined Adjust. Factor</b>	0.9999401071

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	35 54 51.8261688		
<b>Longitude</b>	90 48 18.0652788		
<b>Ellipsoid Height:</b>	50.218		
<b>Grid Northing (Meters)</b>	176,062.0159		
<b>Grid Easting (Meters)</b>	507,852.5220		

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE RIGHT. 16.3 METERS EAST NORTHEAST OF THE CENTER OF HWY-63, 11.5 METERS NORTH NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 0.75 METERS WEST SOUTHWEST OF A METAL WITNESS POST AND 0.30 METERS SOUTH SOUTHEAST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "R 315 1990" AND ENCASED IN CONCRETE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN POLE	78	5.45	17.9
MK # 2	LIGHT POLE	86	18.15	59.5
MK # 3	CENTER OF CMP	200	7.15	23.5

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160012	THIS STATION IS A NGS BENCH MARK. Position updated by crew S5101 during 09/2016 for job 100869.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> R 315 A	<b>Date Monumented</b> 6/6/1996	<b>Monumented By</b> AHTD	<b>County</b> CRAIGHEAD	<b>Route</b> 63	<b>Job Number:</b> 100293
---------------------------	------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	176,061.7248		
<b>Easting (M)</b>	507,852.5682		
<b>Elevation (M)*</b>	78.447		
<b>Northing (SFT)</b>	577,629.1754		
<b>Easting (SFT)</b>	1,666,179.6342		
<b>Elevation (SFT)*</b>	257.372		

  

<b>Convergence Angle</b>	0	41	43.2930540
<b>Scale Factor</b>	0.999952488		
<b>Elevation Adjust. Factor</b>	0.9999876893		
<b>Combined Adjust. Factor</b>	0.9999401778		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	26.66	87.5
MK # 2	POWER POLE	122	36.25	118.9
MK # 3	TELEPHONE JUNCTION BOX	251	47.86	157.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1 SEDGWICK NW BASE	ELEVATION BY 3-WIRE USING NGS BENCH MARK "R 315 1990" ELEVATION = 78.898 METERS.
Ref Mon # 2 PARAPORT	
Ref Mon # 3 160012	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> R 34	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> CGS	<b>County</b> BENTON	<b>Route</b> N/A	<b>Job Number:</b> 090445,090558
------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	234,503.5875    0.0040
<b>Easting (M)</b>	179,931.0897    0.0040
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	769,367.1867	
<b>Easting (SFT)</b>	590,323.9168	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	25	40.8732306
<b>Scale Factor</b>	1.000042815		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Latitude</b>	36	25	20.1457236
<b>Longitude</b>	94	27	14.6469420
<b>Ellipsoid Height:</b>	343.599		
<b>Grid Northing (Meters)</b>	234,503.5947		
<b>Grid Easting (Meters)</b>	179,931.0847		

  

Location Description			
<p>DESCRIBED BY US GEOLOGICAL SURVEY 1968          AT GRAVETTE. AT GRAVETTE, BENTON CO, ON STATE HWY 72. AT THE CROSSING OF HWY 72 AND THE ST. LOUIS-SAN FRANCISCO RAILWAY AND THE KANSAS CITY SOUTHERN RAILWAY, AT A CONC CUL, IN TOP OF THE S HEADWALL, 15 FT S AND 101 FT W OF THE MAIN LINE. A STANDARD DISK, STAMPED R 34 1934.</p> <p style="text-align: center;">STATION RECOVERY (2012)</p> <p>RECOVERY NOTE BY COSTELLO LAND SURVEYING 2012 (TC)          STATION IS 15.5 FEET SOUTH OF CENTER LINE OF ROAD (NW MAIN ST), 101 FEET WEST OF RAILROAD TRACK.</p> <p style="text-align: center;">STATION RECOVERY (2015)</p> <p>RECOVERY NOTE BY ARKANSAS DEPARTMENT OF TRANSPORTATION 2015 (JDH)          RECOVERED IN GOOD CONDITION.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> R 79	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> CGS	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> NA
------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	603,926.5369	
<b>Easting (M)</b>	308,360.1250	
<b>Elevation (M)*</b>	139.361	
<b>Northing (SFT)</b>	1,981,382.3131	
<b>Easting (SFT)</b>	1,011,678.1768	
<b>Elevation (SFT)*</b>	457.220	

  

<b>Convergence Angle</b>	0	33	30.6553158
<b>Scale Factor</b>	0.999951572		
<b>Elevation Adjust. Factor</b>	0.9999781302		
<b>Combined Adjust. Factor</b>	0.9999297033		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 3 MI (4.8 KM) EAST OF HOT SPRINGS, 0.3 MI (0.5 KM) WEST OF MORNING STAR, BETWEEN SPRING ROAD AND THE RAILROAD. OWNERSHIP--ROAD OR RAILROAD RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 70 (E. GRAND AV) AND U.S. HIGHWAY 270 BUSINESS (MALVERN AV) IN HOT SPRINGS, GO NORTHEAST FOR 0.85 MI (1.37 KM) ON HIGHWAY 70 TO AN INTERSECTION. TURN RIGHT AND GO EASTERLY FOR 1.05 MI (1.69 KM) ON SPRING ROAD TO A RAILROAD CROSSING. CONTINUE STRAIGHT AHEAD AND GO EASTERLY FOR 1.5 MI (2.4 KM) ON SPRING ROAD TO THE MORNING STAR MISSIONARY BAPTIST CHURCH ON LEFT. CONTINUE STRAIGHT AHEAD AND GO EAST FOR 0.15 MI (0.24 KM) ON SPRING ROAD TO THE STATION ON RIGHT. THE STATION IS A CGS BENCH MARK DISK SET INTO THE TOP OF A 15-CM SQUARE CONCRETE MONUMENT PROJECTING 4 CM ABOVE GROUND. LOCATED 59.7 M (195.9 FT) EAST-NORTHEAST FROM A UTILITY POLE, 32.5 M (106.6 FT) WEST-SOUTHWEST FROM UTILITY POLE NUMBER 17 (3383Z 200 05 374 853) WITH TWO GUY WIRES, 13.7 M (44.9 FT) NORTH-NORTHWEST OF THE NORTH RAIL OF RAILROAD, 10.4 M (34.1 FT) SOUTH AND ACROSS ROAD FROM A FIRE HYDRANT, 5.5 M (18.0 FT) SOUTH-SOUTHEAST FROM THE APPROXIMATE CENTER OF SPRING</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ROCKPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> R60101,061303
----------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	640,178.9171	
<b>Easting (M)</b>	376,418.2380	
<b>Elevation (M)*</b>	165.111	
<b>Northing (SFT)</b>	2,100,320.3305	
<b>Easting (SFT)</b>	1,234,965.5025	
<b>Elevation (SFT)*</b>	541.701	

  

<b>Convergence Angle</b>	0	8	39.4219097
<b>Scale Factor</b>	1.000015180		
<b>Elevation Adjust. Factor</b>	0.9999740894		
<b>Combined Adjust. Factor</b>	0.9999892690		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ON THE NORTH SIDE OF LITTLE ROCK, AT THE NORTH LITTLE ROCK MUNICIPAL AIRPORT, NEAR THE WEST SIDE OF THE AIRFIELD, BETWEEN THE MAIN RAMP AND RUNWAY 17-35 AND JUST EAST OF THE AIRPORT OFFICE. OWNERSHIP--CITY OF NORTH LITTLE ROCK, 8230 REMOUNT ROAD, NORTH LITTLE ROCK AR 72118. MAILING ADDRESS IS PO BOX 9113, NORTH LITTLE ROCK AR 72119. AIRPORT MANAGER IS JUDY WHEELER, PHONE 501-835-5654. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 176 (CAMP ROBINSON ROAD) IN NORTH LITTLE ROCK (EXIT 152), GO NORTH ON HIGHWAY 176 FOR 3.22 KM (2.00 MI) TO A PAVED Y-JUNCTION. TURN RIGHT, NORTH ON REMOUNT ROAD FOR 2.41 KM (1.50 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT, EAST ON THE ROAD FOR 0.20 KM (0.10 MI) TO THE TERMINAL AND A GATE ON THE LEFT. TURN LEFT, NORTH, PASSING THROUGH THE GATE FOR 0.11 KM (0.05 MI) TO THE APRON. TURN RIGHT, EAST ACROSS THE APRON FOR 0.11 KM (0.05 MI) TO A TAXIWAY. TURN RIGHT, SOUTH ALONG THE TAXIWAY FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 1.2 M (3.9 FT) X 0.3 M (1.0 FT) AREA OF EXPOSED ROCK OUTCROP PROJECTING 5 CM ABOVE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  Elev. is 3rd Order published by NGS-541.6 feet doesn't agree w/ levels ran. 3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 on RR track) to G10 & RV159 (67/167 - 440 on RR track) in May 07 in job R60101.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ROGPORT	<b>Date Monumented</b> 1/2/1989	<b>Monumented By</b> NOAA	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090064
---------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	227,407.1701	
<b>Easting (M)</b>	210,575.3310	
<b>Elevation (M)*</b>	412.613	
<b>Northing (SFT)</b>	746,085.0239	
<b>Easting (SFT)</b>	690,862.5651	
<b>Elevation (SFT)*</b>	1,353.714	

  

<b>Convergence Angle</b>	-1	13	41.6989629
<b>Scale Factor</b>	1.000028621		
<b>Elevation Adjust. Factor</b>	0.9999352518		
<b>Combined Adjust. Factor</b>	0.9999638709		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTHWEST ON THE TAXIWAY FOR 0.38 (0.24 MI) TO AND THE STATION ACROSS THE RUNWAY AND ON LINE WITH THE RUNWAY END. THE STATION IS 42.1 METER WEST OF OF THE CENTER OF RUNWAY END 1, 27.1 METERS WEST-NORTHWEST OF THE SOUTHWEST CORNER OF THE RUNWAY, 24.2 METERS WEST OF THE WESTERMOST THRESHOLD LIGHT AND 6.2 METERS NORTHWEST OF THE CENTER OF THE WEST REIL. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPORT 1989".</p> <p style="text-align: center;">NOTE " DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER".</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	ROGPORT AZ MK
			Meters	Feet		
MK # 1	NONE				<b>Geodetic Azimuth</b>	17 27 01.672238
MK # 2	NONE				<b>Grid Azimuth</b>	18 40 43.415437
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> CASSPORT <b>Ref Mon # 2</b> V 26 <b>Ref Mon # 3</b> FLINT	DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
ROGPORT AZ MK	1/2/1989	NOAA	BENTON	62	090064

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	228,037.7441	
<b>Easting (M)</b>	210,788.5080	
<b>Elevation (M)*</b>	412.532	
<b>Northing (SFT)</b>	748,153.8321	
<b>Easting (SFT)</b>	691,561.9633	
<b>Elevation (SFT)*</b>	1,353.449	

  

<b>Convergence Angle</b>	-1	13	37.0394989
<b>Scale Factor</b>	1.000029987		
<b>Elevation Adjust. Factor</b>	0.9999352645		
<b>Combined Adjust. Factor</b>	0.9999652495		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN RIGHT AND GO NORTHWEST ON THE TAXIWAY FOR 0.27 KM (0.17 MI) TO A TAXIWAY. TURN LEFT AND GO WESTERLY CROSSING THE RUNWAY FOR 0.12 KM (0.07 MI) TO THE STATION ON THE RIGHT LOCATED NORTH AND WEST OF THE INTERSECTION OF THE RUNWAY AND THE REMAINS OF A FORMER EAST-WEST RUNWAY. THE STATION IS 69.4 METERS SOUTHWEST OF THE SECOND RUNWAY LIGHT NORTH OF THE INTERSECTION, 47.4 METERS WEST OF THE WEST EDGE OF RUNWAY, AND 11.5 METERS WEST-NORTHWEST OF A 90 BEND IN A SHALLOW DITCH. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPORT AZ MK 1989"</p> <p style="text-align: right;">NOTE "DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK"</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT
<p>DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.</p>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ROUCH	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> UALR	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	------------------------------	--------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	628,284.9840	
<b>Easting (M)</b>	368,780.5640	
<b>Elevation (M)*</b>	113.200	
<b>Northing (SFT)</b>	2,061,298.3183	
<b>Easting (SFT)</b>	1,209,907.5671	
<b>Elevation (SFT)*</b>	371.390	

  

<b>Convergence Angle</b>	0	11	26.7791821
<b>Scale Factor</b>	0.999990847		
<b>Elevation Adjust. Factor</b>	0.9999822355		
<b>Combined Adjust. Factor</b>	0.9999730827		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN LITTLE ROCK, AT THE UNIVERSITY OF ARKANSAS AT LITTLE ROCK, ON TOP OF THE ENGINEERING-TECHNICAL SCIENCE BUILDING, NEAR THE TOP CENTER OF THE EAST WALL OF BUILDING. OWNERSHIP-- UNIVERSITY OF ARKANSAS AT LITTLE ROCK, 2801 SOUTH UNIVERSITY AVENUE, LITTLE ROCK AR 72204. CONTACT IS PROFESSOR JUD ROUCH, PHONE 501-569-8204 OR 565-0630 (HOME). TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND UNIVERSITY AVENUE (EXIT 132) IN SOUTHWEST LITTLE ROCK, GO NORTH FOR 2.85 MI (4.59 KM) ON UNIVERSITY AVENUE TO A CROSS STREET, ASHER AVENUE. CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 0.65 MI (1.05 KM) ON UNIVERSITY AVENUE TO THE JUNCTION OF 28TH STREET. TURN RIGHT AND GO EAST FOR 0.2 MI (0.3 KM) ON 28TH STREET TO A PAVED ROAD RIGHT. TURN RIGHT AND GO SOUTH FOR 0.07 MI (0.11 KM) ON THE PAVED ROAD TO A PAVED ROAD RIGHT. TURN RIGHT AND GO WESTERLY THEN SOUTHERLY FOR 0.25 MI (0.40 KM) ON THE PAVED ROAD ALONG PERIMETER OF PARKING LOT TO THE WEST SIDE OF BUILDING, A LOADING DOCK AND END OF TRUCK TRAVEL. UNIVERSITY PERSONNEL WILL PROVIDE ESCORT TO THE STATION SITE. STATION MONUMENTATION CONSISTS OF A 1.5-INCH METAL PIPE WELDED TO TWO STEEL</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> RP 05	<b>Date Monumented</b> 2/7/1997	<b>Monumented By</b> MoDOT	<b>County</b> MO / RIPLEY	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-------------------------------	------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	106.140	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	348.228	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999833435
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> RUSSPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> POPE	<b>Route</b> 331	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	-----------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	103,361.4700	
<b>Easting (M)</b>	300,610.9350	
<b>Elevation (M)*</b>	118.000	
<b>Northing (SFT)</b>	339,111.7562	
<b>Easting (SFT)</b>	986,254.3759	
<b>Elevation (SFT)*</b>	387.138	

  

<b>Convergence Angle</b>	0	38	8.1513686
<b>Scale Factor</b>	0.999951850		
<b>Elevation Adjust. Factor</b>	0.9999814823		
<b>Combined Adjust. Factor</b>	0.9999333332		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF RUSSELLVILLE, AT THE RUSSELLVILLE REGIONAL AIRPORT, NEAR MIDFIELD, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY LEADING TO SOME HANGARS. OWNERSHIP--CITY OF RUSSELLVILLE, CITY HALL, RUSSELLVILLE AR, PO BOX 128, RUSSELLVILLE AR 72801. AIRPORT MANAGER IS BILL SHELTON, PHONE 501-967-1227 (AIRPORT), 331-3318 (HOME). ASSISTANT MANAGER IS SHAWN WALTER, PHONE 890-5070. CALL IN ADVANCE TO OPEN THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAYS 64 AND 331 (EXIT 84) ON THE EAST SIDE OF RUSSELLVILLE, GO SOUTH ON HIGHWAYS 64 AND 331 FOR 0.48 KM (0.30 MI) TO A PAVED T-JUNCTION. TURN RIGHT, WEST ON HIGHWAYS 64 AND 331 FOR 0.74 KM (0.45 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTH ON HIGHWAY 331 (ELMIRA AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD. TURN LEFT, EAST ON EAST 16TH STREET FOR 0.40 KM (0.25 MI) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHEAST ON THE AIRPORT ENTRANCE ROAD FOR 0.38 KM (0.25 MI) TO A DRIVEWAY AND A PARKING LOT ON THE LEFT. TURN LEFT, EAST ON THE DRIVEWAY AND THROUGH THE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b>	SSPORT AZ MK (FG1962)
<b>Geodetic Azimuth</b>	074 25 48.1
<b>Grid Azimuth</b>	075 03 56.3

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> S 197	<b>Date Monumented</b> 1/1/1960	<b>Monumented By</b> CGS	<b>County</b> OUACHITA	<b>Route</b> 278	<b>Job Number:</b> 070258, 001914
-------------------------	------------------------------------	-----------------------------	---------------------------	---------------------	--------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	505,443.4082	
<b>Easting (M)</b>	328,853.3610	
<b>Elevation (M)*</b>	37.882	
<b>Northing (SFT)</b>	1,658,275.5817	
<b>Easting (SFT)</b>	1,078,913.0685	
<b>Elevation (SFT)*</b>	124.285	

  

<b>Convergence Angle</b>	0	25	44.8526964
<b>Scale Factor</b>	0.999945100		
<b>Elevation Adjust. Factor</b>	0.9999940551		
<b>Combined Adjust. Factor</b>	0.9999391554		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	2nd Order by NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	33 36 53.8343856
<b>Longitude</b>	92 46 0.1901064
<b>Ellipsoid Height (M):</b>	11.680
<b>Geoid Height (M):</b>	-26.210

  

Location Description
<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, AT HARRELL FIELD AIRPORT, NEAR THE CENTER OF THE SOUTH END OF THE AIRFIELD, NEAR THE SOUTHWEST CORNER OF A SMALL RECTANGULAR GRASS ISLAND WITH TWO FUEL PUMPS LOCATED NEAR THE CENTER OF THE APRON. OWNERSHIP--CITY OF CAMDEN, FBO IS JIM ADVANT, PO BOX 26, CAMDEN AR 71701, PHONE 501-574-2642. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 4 ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, GO NORTHEAST ON HIGHWAY 79 FOR 0.48 KM (0.30 MI) TO AIRPORT ROAD ON THE RIGHT. TURN RIGHT, EASTERLY ON THE ROAD FOR 0.13 KM (0.10 MI) TO A PAVED ROAD RIGHT JUST BEFORE BUILDING NUMBER 3 ON THE RIGHT. TURN RIGHT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A PARKING LOT ON THE SOUTH SIDE OF THE BUILDING AND A GATE IN THE PIPE FENCE ON THE LEFT AT THE APRON. TURN LEFT, EAST-SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR 0.18 KM (0.10 MI) TO THE STATION ON THE RIGHT JUST BEFORE THE JUNCTION OF A TAXIWAY. THE STATION IS SET IN THE TOP OF A 25 CM ROUND CONCRETE POST RECESSED 2 CM BELOW THE GROUND SURFACE. IT IS 43.1 M (141.4 FT) SOUTHEAST OF A</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> S 25	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> CGS	<b>County</b> RANDOLPH	<b>Route</b> D HWY	<b>Job Number:</b> 100877
------------------------	------------------------------------	-----------------------------	---------------------------	-----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD83 (2011)				
<b>Northing (M)</b>	225,526.4135	0.0020			
<b>Easting (M)</b>	511,397.1992	0.0020			
<b>Elevation (M)*</b>	85.440				
<b>Northing (SFT)</b>	739,914.5750				
<b>Easting (SFT)</b>	1,677,808.9777				
<b>Elevation (SFT)*</b>	280.314				

  

<b>Convergence Angle</b>	0	43	20.0278231
<b>Scale Factor</b>	1.000027440		
<b>Elevation Adjust. Factor</b>	0.9999865919		
<b>Combined Adjust. Factor</b>	1.0000140315		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: MODP	Elevation from NGS datasheet.
Ref Mon # 2: ARPG	
Ref Mon # 3: ARBT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> S 301	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NGS	<b>County</b> POLK	<b>Route</b> 71	<b>Job Number:</b> 040488
-------------------------	------------------------------------	-----------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	590,199.8468	
<b>Easting (M)</b>	181,371.0640	
<b>Elevation (M)*</b>	358.859	
<b>Northing (SFT)</b>	1,936,347.3307	
<b>Easting (SFT)</b>	595,048.2325	
<b>Elevation (SFT)*</b>	1,177.357	

  

<b>Convergence Angle</b>	-1	19	49.1980229
<b>Scale Factor</b>	0.999934428		
<b>Elevation Adjust. Factor</b>	0.9999436865		
<b>Combined Adjust. Factor</b>	0.9998781182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input type="text" value="MENAPORT AZ"/> <b>Ref Mon # 2</b> <input type="text" value="DQUA"/> <b>Ref Mon # 3</b> <input type="text" value="OKHV"/>	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> SALIPOINT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> SALINE	<b>Route</b> I30	<b>Job Number:</b> 061039,60209,061256
-----------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	---

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	610,381.0900	
<b>Easting (M)</b>	344,279.6760	
<b>Elevation (M)*</b>	96.995	
<b>Northing (SFT)</b>	2,002,558.6261	
<b>Easting (SFT)</b>	1,129,524.2370	
<b>Elevation (SFT)*</b>	318.225	

  

<b>Convergence Angle</b>	0	20	23.4147888
<b>Scale Factor</b>	0.999960755		
<b>Elevation Adjust. Factor</b>	0.9999847785		
<b>Combined Adjust. Factor</b>	0.9999455341		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 5.4 MI (8.7 KM) WEST OF BAUXITE, 3.7 MI (6.0 KM) NORTHEAST OF HASKELL, 0.8 MI (1.3 KM) SOUTHWEST OF BENTON, AT THE SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANAGER IS SETH OTTS, TELEPHONE 501-776-2102. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAYS 5/35 AT EXIT 117, GO 0.6 MI (1.0 KM) SOUTHWESTERLY ON INTERSTATE HIGHWAY 30 TO EXIT 116. EXIT THE INTERSTATE HIGHWAY AND GO 0.4 MI (0.6 KM) ON LOOP ROAD/I-30 OVERPASS. IMMEDIATELY AFTER CROSSING OVERPASS TURN RIGHT, SOUTHWEST ON FAIRFIELD ROAD FOR 0.3 MI (0.5 KM) TO A PAVED ROAD LEFT. TURN LEFT, SOUTH ON AIRLANE ROAD FOR 0.08 MI (0.13 KM) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHWESTERLY, ON AIRPORT ENTRANCE ROAD FOR 0.1 MI (0.2 KM) PASSING TERMINAL BUILDING/HANGAR TO A LOCKED GATE ON THE LEFT. TURN LEFT AND PASS THROUGH THE GATE AND GO 0.05 MI (0.08 KM) TO AN APRON AND SOUTHWEST CORNER OF TERMINAL BUILDING. TURN LEFT, EAST FOR 0.05 MI (0.08 KM) ANGLING NORTHEASTERLY ACROSS APRON TO THE NORTH FENCE AND STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&amp;F in 2003. Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
SALIPOINT AZ MK	1/1/1990	NGS	SALINE	I30	061039,061256

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	609,770.2479	
<b>Easting (M)</b>	344,281.2200	
<b>Elevation (M)*</b>	93.407	
<b>Northing (SFT)</b>	2,000,554.5550	
<b>Easting (SFT)</b>	1,129,529.3026	
<b>Elevation (SFT)*</b>	306.453	

  

<b>Convergence Angle</b>	0	20	23.3013487
<b>Scale Factor</b>	0.999959876		
<b>Elevation Adjust. Factor</b>	0.9999853416		
<b>Combined Adjust. Factor</b>	0.9999452182		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 8.7 KM (5.4 MI) WEST OF BAUXITE. 5.9 KM (3.7 MI) NORTHEAST OF HASKELL, AND 1.3 KM (0.8 MI) SOUTHWEST OF BENTON. AT THE BENTON SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANGER IS JOHN WELLS, SALINE COUNTY AIRPORT. BENTON AR 72015. PHONE IS 501-778-4842. TO REACH FROM THE WEST SIDE OF THE SALINE COUNTY COURTHOUSE IN BENTON, GO SOUTH ON MARKET STREET FOR 0.17 KM (0.11 MI) TO A CROSS STREET. TURN RIGHT AND GO WEST ON SOUTH STREET (U.S.HIGHWAY 70 B) FOR 1.1 KM (0.7 MI) TO A PAVED STREET ON THE LEFT. TURN LEFT AND GO SOUTH ON JEFFERSON STREET FOR 0.23 KM (0.14 MI) TO A PAVED STREET ON THE RIGHT. TURN RIGHT AND GO WEST ON SMITH STREET FOR 0.57 KM (0.35 MI) TO A PAVED T-JUNCTION. TURN LEFT AND GO SOUTH ON AIRLANE STREET FOR 50 FT (15.2 M) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTH ON THE AIRPORT ENTRANCE ROAD FOR 0.21 KM (0.13 MI) PASSING AIRPORT OFFICE TO A LOCKED GATE. PASS THROUGH GATE AND CONTINUE SOUTH ON ENTRANCE ROAD FOR 0.06 KM (0.04 MI) TO AN APRON. TURN LEFT AND GO EAST ACROSS THE APRON FOR 150 FT (45.7 M) TO A TAXIWAY. TURN RIGHT AND GO SOUTH ON THE TAXIWAY FOR 0.56 KM</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&amp;F in 2003.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
SARATOGA AZ		USC&GS	HEMPSTEAD	32	30056

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	LEVEL - Unkown Quality
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	522,051.8822	
<b>Easting (M)</b>	223,598.7240	
<b>Elevation (M)*</b>	142.838	
<b>Northing (SFT)</b>	1,712,765.2169	
<b>Easting (SFT)</b>	733,590.1470	
<b>Elevation (SFT)*</b>	468.628	

  

<b>Convergence Angle</b>	-1	3	56.6522101
<b>Scale Factor</b>	0.999930521		
<b>Elevation Adjust. Factor</b>	0.9999775846		
<b>Combined Adjust. Factor</b>	0.9999081071		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	190	16.20	53.1
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> HOPEPORT	Cross Reference Job: 30088
<b>Ref Mon # 2</b> X 303 BM	
<b>Ref Mon # 3</b> PATE 1941	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> SEARPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> WHITE	<b>Route</b> 67	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	97,765.1741	
<b>Easting (M)</b>	424,074.9300	
<b>Elevation (M)*</b>	79.200	
<b>Northing (SFT)</b>	320,751.2420	
<b>Easting (SFT)</b>	1,391,319.1662	
<b>Elevation (SFT)*</b>	259.842	

  

<b>Convergence Angle</b>	0	9	13.9323798
<b>Scale Factor</b>	0.999956657		
<b>Elevation Adjust. Factor</b>	0.9999875711		
<b>Combined Adjust. Factor</b>	0.9999442286		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>STATION IS LOCATED ABOUT 14.1 KM (8.8 MI) NORTHEAST OF MCRAE, 6.7 KM (4.2 MI) WEST-SOUTHWEST OF KENSSETT, AND 3.5 KM (2.2 MI) SOUTH OF SEARCY. AT THE SEARCY MUNICIPAL AIRPORT. OWNERSHIP--CITY OF SEARCY AR 72143. AIRPORT MANAGER IS BUTCH BARKER, RTE. 7, SEARCY AR 72143. PHONE IS 501-268-9620 OR 501-268-6777. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 67 AND 67B AND STATE HIGHWAY 367 (EXIT 42) ABOUT 4.0 KM (2.5 MI) SOUTH OF SEARCY, GO NORTH ON U.S. HIGHWAY 67B FOR 0.84 KM (0.52 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO WEST ON THE AIRPORT ENTRANCE ROAD AND NORTHWEST ON A TAXIWAY, AND WEST ACROSS AN APRON AND ALONG A CONNECTOR FOR 0.31 KM (0.19 MI) TO A TAXIWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 24.8 M (81.4 FT) EAST OF THE TAXIWAY CENTERLINE, 24.1 M (79.1 FT) SOUTH OF THE CONNECTOR CENTERLINE AND 19.7 M (64.6 FT) SOUTHEAST OF THE CURVED PAVEMENT AT THE JUNCTION OF THE CONNECTOR AND TAXIWAY. NOTE--THE AIRPORT MANAGER IS JOHN JACOBI. THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
SEDGWICK AZ	11/4/1993	AHTD	LAWRENCE	63	RX0017,001784

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	190,794.1349	
<b>Easting (M)</b>	492,870.8420	
<b>Elevation (M)*</b>	81.110	
<b>Northing (SFT)</b>	625,963.7576	
<b>Easting (SFT)</b>	1,617,027.0875	
<b>Elevation (SFT)*</b>	266.108	

  

<b>Convergence Angle</b>	0	35	59.1690600
<b>Scale Factor</b>	0.999968712		
<b>Elevation Adjust. Factor</b>	0.9999872714		
<b>Combined Adjust. Factor</b>	0.9999559838		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN THE TOP OF A FIRE HYDRANT	19	24.33	79.8
MK # 2	NBC IN COMBINATION POLE	48	34.91	114.5
MK # 3	NBC IN COMBINATION POLE	327	31.84	104.5

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NGVD 29

**Geoid Datum:**

**Latitude** 36 2 55.2850980

**Longitude** 90 58 9.4444140

**Ellipsoid Height (M):**

**Geoid Height (M):** -28.765

  

**Location Description**

THIS STATION WAS SET BECAUSE THE ORIGINAL AZIMUTH MARK FOR THE STATION "SEDGWICK" WAS NOT RECOVERED. THE OBSERVATIONS DONE WERE BY GLOBAL POSITIONING METHODS AND NO TRAVERSE TIES WERE MADE TO "SEDGWICK" ALTHOUGH THERE IS A GOOD LINE OF SIGHT BETWEEN THE TWO POINTS. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.56 KM (0.35 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.794 METERS SOUTH OF THE CENTERLINE OF HWY. 63, 36.734 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF THE "COX IMPLEMENT CO. " BUILDING, 66.87 METERS NORTH OF THE NORTHWEST CORNER OF "AMERICAN LEGION POST 335" AND 0.50 METERS NORTH OF A WITNESS POST AT THE EDGE OF A CULTIVATED FIELD. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "SEDGWICK AZ" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
DGWICK BASE 3	1/1/1958	USC&GS	LAWRENCE	63	100278

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	182,994.0829	
<b>Easting (M)</b>	502,674.2710	
<b>Elevation (M)*</b>	79.969	
<b>Northing (SFT)</b>	600,373.0870	
<b>Easting (SFT)</b>	1,649,190.5041	
<b>Elevation (SFT)*</b>	262.365	

  

<b>Convergence Angle</b>	0	39	44.9744518
<b>Scale Factor</b>	0.999959418		
<b>Elevation Adjust. Factor</b>	0.9999874504		
<b>Combined Adjust. Factor</b>	0.9999468689		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	138	13.43	44.1
MK # 2	GUY POLE	210	33.48	109.8
MK # 3	FIRE HYDRANT	308	32.11	105.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160014	THIS STATION IS A USC&GS BENCH MARK. FIRST ORDER, CLASS 2. ELEVATION = 79.969 METERS NAVD88 DATUM.

  

Location Description	
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SEDGWICK, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.16 KM. (0.10 MI.) TO THE STATION ON THE RIGHT. 28.207 METERS SOUTHWEST OF THE CENTER OF U.S. 63, 11.548 METERS SOUTHWEST OF THE CENTER OF "MAIN STREET", 9.119 METERS SOUTHEAST OF THE SOUTHEAST EDGE OF A CONCRETE DRIVE, 7.702 METERS NORTHWEST OF THE NORTHWEST EDGE OF A CONCRETE DRIVE, 0.735 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A CONCRETE SIDEWALK AND 1.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&GS BRONZE DISK STAMPED "SEDGWICK SE BASE 3 1958" SET IN CONCRETE AND IS 0.10 METERS BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	SEDGWICK SE 3 AZ
<b>Geodetic Azimuth</b>	314 41 45.77124
<b>Grid Azimuth</b>	314 02 00.73997

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> SEDGWICK NW	<b>Date Monumented</b> 	<b>Monumented By</b> USC&GS	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> RX0017,001784
-------------------------------	----------------------------	--------------------------------	---------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	190,681.2719	
<b>Easting (M)</b>	493,595.3420	
<b>Elevation (M)*</b>	81.405	
<b>Northing (SFT)</b>	625,593.4729	
<b>Easting (SFT)</b>	1,619,404.0512	
<b>Elevation (SFT)*</b>	267.076	

  

<b>Convergence Angle</b>	0	36	15.9841521
<b>Scale Factor</b>	0.999968559		
<b>Elevation Adjust. Factor</b>	0.9999872251		
<b>Combined Adjust. Factor</b>	0.9999557845		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
DESCRIBED BY COAST AND GEODETIC SURVEY 1953 (RLE)THE STATION IS LOCATED ABOUT 1.5 MILES SOUTH OF THE CENTER OF THE BUSINESS DISTRICT OF WALNUT RIDGE AND ABOUT 0.7 MILE EAST OF THE CENTER OF HOXIE. IT IS NEAR THE SOUTH EDGE OF A PASTURE, OWNED BY MR. ARTHUR IVINS, 80 FEET EAST OF THE EAST END OF A GATE, 50 FEET NORTH OF THE NORTH RAIL OF A RAILROAD, 40 FEET SOUTH OF THE SOUTH BANK OF A DRAINAGE DITCH AND 2 FEET NORTH OF A FENCE LINE. IT IS STAMPED SEDGWICK NW BASE 1953 AND IS FLUSH WITH THE SURFACE OF THE GROUND.REFERENCE MARK NO. 1 IS 50 FEET NORTH OF THE NORTH RAIL OF THE RAILROAD, 30 FEET WEST OF THE WEST END OF A GATE AND 2.5 FEET NORTH OF A FENCE. IT IS STAMPED SEDGWICK NO 1 1953 AND IS FLUSH WITH THE SURFACE OF THE GROUND.REFERENCE MARK NO. 2 IS 39 FEET NORTHEAST OF THE NORTH END OF A BRIDGE ACROSS A DRAINAGE DITCH AND 2 FEET SOUTH OF A FENCE. IT IS STAMPED SEDGWICK NO 2 1953 AND PROJECTS 4 INCHES.THE DISTANCE BETWEEN REFERENCE MARK NO. 1 AND REFERENCE MARK NO. 2 IS 101.1 FEET.THE AZIMUTH MARK IS LOCATED ABOUT 35 YARDS SOUTHWEST OF A SCHOOL HOUSE, 33 FEET NORTHWEST OF THE CENTER OF U.S. HIGHWAY 63, 1 FOOT SOUTH OF A POWERLINE POLE AND			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	SEDGWICK AZ
			Meters	Feet		
MK # 1	SEDGWICK NO 1 1953					
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
OGWICK SE 3 AZ	10/28/1997	AHTD	LAWRENCE	63	100278

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	183,492.1269	
<b>Easting (M)</b>	502,159.1360	
<b>Elevation (M)*</b>	80.547	
<b>Northing (SFT)</b>	602,007.0863	
<b>Easting (SFT)</b>	1,647,500.4320	
<b>Elevation (SFT)*</b>	264.261	

  

<b>Convergence Angle</b>	0	39	33.1427671
<b>Scale Factor</b>	0.999959964		
<b>Elevation Adjust. Factor</b>	0.9999873597		
<b>Combined Adjust. Factor</b>	0.9999473242		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SEDGWICK, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 0.48 KM. (0.30 MI.) TO THE STATION ON THE RIGHT. 22.592 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, 17.204 METERS NORTHEAST OF THE CENTER OF U.S. 63, 5.173 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF THE TRACK AND 1.0 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "SEDGWICK SE BASE 3 AZ" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE WITH TBM-12	217	39.77	130.5
<b>MK # 2</b>	TELEPHONE POLE	336	41.45	136.0
<b>MK # 3</b>	TELEPHONE POLE	66	21.11	69.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> SEDGWICK NW BASE <b>Ref Mon # 2</b> PARAPORT <b>Ref Mon # 3</b> 160014	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION SEDGWICK SE BASE 3, ELEVATION = 79.969 METERS NAVD88 DATUM.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> SILOAM	<b>Date Monumented</b> 3/17/1997	<b>Monumented By</b> ARGLS	<b>County</b> BENTON	<b>Route</b> 264	<b>Job Number:</b> 090147,090268
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	-------------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	209,335.9670	
<b>Easting (M)</b>	172,867.4140	
<b>Elevation (M)*</b>	344.207	
<b>Northing (SFT)</b>	686,796.4184	
<b>Easting (SFT)</b>	567,149.1741	
<b>Elevation (SFT)*</b>	1,129.286	

  

<b>Convergence Angle</b>	-1	28	10.7342607
<b>Scale Factor</b>	0.999992450		
<b>Elevation Adjust. Factor</b>	0.9999459856		
<b>Combined Adjust. Factor</b>	0.9999384360		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, ON THE NORTHERLY RIGHT-OF-WAY OF STATE HIGHWAY 264, ADJACENT TO THE GROUNDS OF THE SILOAM SPRINGS CHILD DEVELOPMENT CENTER, INSIDE A FENCED AREA AT THE SOUTHEAST CORNER OF THE CENTERS GROUNDS. TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAYS 264 AND 59 IN SILOAM SPRINGS, GO NORTH ON HIGHWAY 264 FOR 0.9 MI (1.4 KM) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 15 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 1.5 M (4.9 FT) NORTHWEST OF THE FENCE CORNER AT THE SOUTHEAST CORNER OF THE FENCED AREA, 23.3 METERS (76.4 FT) NORTHWESTERLY FROM THE CENTERLINE OF HIGHWAY 264 AND 76.8 METERS (252.0 FT) NORTHEAST OF THE BACK OF CURB ON THE EAST SIDE OF HEARTLAND STREET. ACCESS TO THE STATION IS THROUGH AN UNLOCKED GATE ON THE SOUTH SIDE OF THE FENCE.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP UNDER SIDEWALK	85	7.90	25.9
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="SILOAM"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="ENES"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="SALLISAW"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
SPRINGDALE	1/1/1935	NGS	WASHINGTON	NA	040272,012111

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,267.4509	
<b>Easting (M)</b>	205,366.1710	
<b>Elevation (M)*</b>	428.603	
<b>Northing (SFT)</b>	673,448.2952	
<b>Easting (SFT)</b>	673,772.1794	
<b>Elevation (SFT)*</b>	1,406.175	

  

<b>Convergence Angle</b>	-1	15	31.9035644
<b>Scale Factor</b>	0.999987075		
<b>Elevation Adjust. Factor</b>	0.9999327428		
<b>Combined Adjust. Factor</b>	0.9999198186		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 71 AND STATE HIGHWAY 68 IN THE SOUTH EDGE OF SPRINGDALE, GO WEST ON STATE HIGHWAY FOR 1.0 MILE TO JOHNSON ROAD ON THE LEFT. TURN LEFT AND GOSOUTH ON JOHNSON ROAD FOR 0.7 MILE TO A CROSSROAD. TURN RIGHT AND GO WEST ON GRAVELED ROAD FOR 0.35 MILE TO THE TOP OF HILL AND STATION ON RIGHT AS DESCRIBED. THE STATION MARK IS A STANDARD DISK STAMPED SPRINGDALE 1935. THE SURFACE DISK IS SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT IS SET 15-INCHES BELOW THE GROUND SURFACE. IT IS 57 FEET WEST OF THE CENTER OF THE GATE, 30 FEET NORTH OF THE CENTER OF A PAVED ROAD, 21 FEET NORTHEAST OF THE METAL WITNESS POST AND 2 FEET NORTH OF THE FENCE.</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SPRINGDALE	
Ref Mon # 2	ARHR	
Ref Mon # 3	A 309	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
SPRINGDALE AZ		AHTD	NA	CR 704	040272,012111

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	205,219.6820	
<b>Easting (M)</b>	205,964.8200	
<b>Elevation (M)*</b>	416.067	
<b>Northing (SFT)</b>	673,291.5734	
<b>Easting (SFT)</b>	675,736.2470	
<b>Elevation (SFT)*</b>	1,365.048	

  

<b>Convergence Angle</b>	-1	15	17.9445750
<b>Scale Factor</b>	0.999987020		
<b>Elevation Adjust. Factor</b>	0.9999347097		
<b>Combined Adjust. Factor</b>	0.9999217306		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 412 AND HWY. 71B IN SPRINGDALE, GO WEST ON HWY. 412 FOR 1.0 MILE TO JOHNSON ROAD, GO LEFT FOR 0.7 MILES TO A CROSSROAD AND THE STATION ON THE LEFT IN AN 8X8 CONCRETE SLAB.FOR A COMPLETE DESCRIPTION SEE USC&amp;GS HORIZONTAL CONTROL DATA QUAD 360942 STATION 1020.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    A 309</p> <p>Ref Mon # 2    ARHR</p> <p>Ref Mon # 3    SPRINGDALE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> STELL	<b>Date Monumented</b> 1/1/1986	<b>Monumented By</b> NGS	<b>County</b> ASHLEY	<b>Route</b> 52	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	456,268.1220	
<b>Easting (M)</b>	410,625.3950	
<b>Elevation (M)*</b>	53.530	
<b>Northing (SFT)</b>	1,496,939.6636	
<b>Easting (SFT)</b>	1,347,193.4834	
<b>Elevation (SFT)*</b>	175.623	

  

<b>Convergence Angle</b>	0	3	49.5320044
<b>Scale Factor</b>	1.000030349		
<b>Elevation Adjust. Factor</b>	0.9999915995		
<b>Combined Adjust. Factor</b>	1.0000219482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HAMBURG, 9 KM (5.60 MI) NORTHEAST OF CROSSETT, AT THE STELL FIELD AIRFIELD, IN THE EAST QUADRANT OF THE JUNCTION OF RUNWAY END 5 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END FROM THE APRON. OWNERSHIP--CITY OF CROSSETT. AIRPORT MANAGER IS Z.M. STELL, ROUTE 4 BOX 403, CROSSETT AR 71635, OFFICE PHONE IS 501-364-6590, HOME PHONE IS 501-364-3194. CONTACT HIM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION AND ACCESS THROUGH THE LOCKED GATE. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 113 ON THE EAST SIDE OF CROSSETT, GO NORTH AND NORTHEAST ON HIGHWAY 113 FOR 3.88 KM (2.40 MI) TO THE JUNCTION OF STATE HIGHWAY 52 (AT THIS POINT HIGHWAY 113 TURNS NORTH). BEAR RIGHT, NORTHEAST AND EASTERLY ON HIGHWAY 52 FOR 5.64 KM (3.50 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, NORTH ON THE ROAD AND ACROSS A PARKING LOT FOR ABOUT 60 M (196.8 FT) TO A GATE AT THE APRON ON THE LEFT AND THE AIRPORT OFFICE ON THE RIGHT. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.19 KM (0.10 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> T 203	<b>Date Monumented</b> 1/1/1960	<b>Monumented By</b> USC & GS	<b>County</b> COLUMBIA	<b>Route</b> US 371	<b>Job Number:</b> 070444
-------------------------	------------------------------------	----------------------------------	---------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	469,750.5792	0.0030	
<b>Easting (M)</b>	284,366.1673	0.0030	
<b>Elevation (M)*</b>	96.719		

  

<b>Northing (SFT)</b>	1,541,173.3586		
<b>Easting (SFT)</b>	932,958.0006		
<b>Elevation (SFT)*</b>	317.319		

  

<b>Convergence Angle</b>	0	41	41.3567899
<b>Scale Factor</b>	1.000002414		
<b>Elevation Adjust. Factor</b>	0.9999848219		
<b>Combined Adjust. Factor</b>	0.9999872358		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

SEE NGS DATASHEET

**Location Reference Marks**

	Description	Azimuth	Distance			
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

<b>Area Reference Monuments</b> (used for Processing)	
Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

**Comments**

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> T 290	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> FAULKNER	<b>Route</b> 365	<b>Job Number:</b> 061507
-------------------------	------------------------------------	-----------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	64,342.2509	0.0020			
<b>Easting (M)</b>	359,495.8169	0.0020			
<b>Elevation (M)*</b>	83.561				

  

<b>Northing (SFT)</b>	211,096.2015				
<b>Easting (SFT)</b>	1,179,445.8593				
<b>Elevation (SFT)*</b>	274.150				

  

<b>Convergence Angle</b>	0	15	28.4820944		
<b>Scale Factor</b>	1.000004171				
<b>Elevation Adjust. Factor</b>	0.9999868867				
<b>Combined Adjust. Factor</b>	0.9999910577				

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89, IN MAYFLOWER, GO EAST ON HIGHWAY 365 3.25 MILES TO THE MARK ON THE LEFT, EAST OF THE CENTERLINE OF THE HIGHWAY 70 FEET AND NORTH OF THE CENTERLINE OF A FIELD ROAD 9.5 FEET. THE MARK IS A NGS 3D ROD MARK STAMPED "1984 T 290" ON TOP OF A 16 FOOT STEEL ROD IN A NGS LOGO CAP LEVEL WITH THE SURFACE OF THE GROUND.

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MANHOLE		200	39.50	129.6
MK # 2	WATERLINE MARKER		78	38.00	124.7
MK # 3					

  

<b>AZ Mark Station</b>	230038
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARBT	USED THIS NGS BM AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT FOR AHTD GPS POINTS 230038, 600077 & 600077A.
Ref Mon # 2    ARHR	
Ref Mon # 3    ARLR, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> T 83	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> USC&GS	<b>County</b> Bradley	<b>Route</b> NA	<b>Job Number:</b> 001914, 020462, 070418
------------------------	------------------------------------	--------------------------------	--------------------------	--------------------	--

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	505,232.4939	0.0029	
<b>Easting (M)</b>	393,683.6961	0.0029	
<b>Elevation (M)*</b>	62.076		
<b>Northing (SFT)</b>	1,657,583.6071		
<b>Easting (SFT)</b>	1,291,610.5930		
<b>Elevation (SFT)*</b>	203.661		

  

<b>Convergence Angle</b>	0	2	17.1494657
<b>Scale Factor</b>	0.999945039		
<b>Elevation Adjust. Factor</b>	0.9999902583		
<b>Combined Adjust. Factor</b>	0.9999352979		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	33	36	55.5681564
<b>Longitude</b>	92	4	5.0454624
<b>Ellipsoid Height:</b>	36.459		
<b>Grid Northing (Meters)</b>	505,232.4892		
<b>Grid Easting (Meters)</b>	393,683.6870		

  

Location Description			
<p>The station is located in Warren, 61.3 feet northwest of the northeast corner of the railway station, 25.9 feet north of the center of the main track, 6.8 feet south of the north edge of the streets' curb and level with the ground. The station mark is a cap stamped "T 83 1935" set in top of a concrete post.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARMO</p> <p>Ref Mon # 3    LTEC, IULM</p>	<p style="text-align: center;"><b>Comments</b></p> <p>This station is a NGS second order benchmark. SUPERCEDED GEOID HT. = -25.756m. SUPERCEDED REF. MON. (ARCM, IULM, S 197, K 124, 700014, 270005, 070003, 070004, 070003, T 83, N 81, 070005, LROC UAM CIS CORS)</p> <p>*****USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> TA-05	<b>Date Monumented</b> 1/1/1995	<b>Monumented By</b> MoDOT	<b>County</b> MO / TANEY	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> GPS - Unknown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	247.300	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	811.350	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999611921
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE NORTH SIDE OF BRANSON, MO., EAST OF U.S. HIGHWAY 65, IN THE GRASS MEDIAN JUST NORTHEAST OF THE INTERSECTION OF BUSINESS ROUTE 65 AND COMPTON DRIVE. OWNERSHIP--MISSOURI DEPARTMENT OF TRANSPORTATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 248, AND BUSINESS ROUTE 65, ON THE NORTH SIDE OF BRANSON, GO SOUTH, 0.16 KM (0.10 MI) ALONG BUSINESS ROUTE 65 TO COMPTON DRIVE ON THE LEFT, AND THE STATION JUST NORTHEAST OF THE JUNCTION. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 25.0 M (82.0 FT) NORTH OF AND ACROSS COMPTON DRIVE FROM A FIRE HYDRANT, 20.7 M (67.9 FT) SOUTHWEST OF A STEEL RIGHT-OF-WAY POST, 17.0 M (55.8 FT) EAST OF THE BUSINESS 65 CENTERLINE, 16.3 M (53.5 FT) NORTHEAST OF THE WEST END OF A CONCRETE CURB ON THE NORTH SIDE OF THE DRIVE, 8.5 M (27.9 FT) NORTHWEST OF A UTILITY POLE (NUMBER 221) AND WITNESS POST, 7.6 M (24.9 FT) NORTHWEST OF THE COMPTON DRIVE CURB, AND THE MONUMENT IS ABOUT 1.0 M (3.3 FT) BELOW THE BUSINESS 65 LEVEL, ABOUT 1.0 M (3.3 FT) ABOVE THE DRIVE LEVEL AND FLUSH WITH THE GROUND SURFACE. BY R.G.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1</p> <p>Ref Mon # 2</p> <p>Ref Mon # 3</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> THOMASON	<b>Date Monumented</b> 4/1/1994	<b>Monumented By</b> 	<b>County</b> BOONE	<b>Route</b> 65	<b>Job Number:</b> NA
----------------------------	------------------------------------	--------------------------	------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	248,032.6456				
<b>Easting (M)</b>	287,210.7569				
<b>Elevation (M)*</b>	410.569				
<b>Northing (SFT)</b>	813,753.7714				
<b>Easting (SFT)</b>	942,290.6249				
<b>Elevation (SFT)*</b>	1,347.008				

  

<b>Convergence Angle</b>	0	43	59.2358602
<b>Scale Factor</b>	1.000081635		
<b>Elevation Adjust. Factor</b>	0.9999355725		
<b>Combined Adjust. Factor</b>	1.0000172022		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

<b>Area Reference Monuments</b> (used for Processing) <div style="margin-top: 10px;"> <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> TRASKWOOD	<b>Date Monumented</b> 1/1/1964	<b>Monumented By</b> USC&GS	<b>County</b> SALINE	<b>Route</b> N/A	<b>Job Number:</b> R60093
-----------------------------	------------------------------------	--------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	597,863.1289	
<b>Easting (M)</b>	339,869.1910	
<b>Elevation (M)*</b>	98.922	
<b>Northing (SFT)</b>	1,961,489.2821	
<b>Easting (SFT)</b>	1,115,054.1708	
<b>Elevation (SFT)*</b>	324.547	

  

<b>Convergence Angle</b>	0	21	58.4935116
<b>Scale Factor</b>	0.999944556		
<b>Elevation Adjust. Factor</b>	0.9999844762		
<b>Combined Adjust. Factor</b>	0.9999290330		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	BRONZE DISK " TRASKWOOD NO. 1 1964 "	396	26.34	86.4
<b>MK # 2</b>	BRONZE DISK " TRASKWOOD NO. 2 1964 "	141	26.87	88.2
<b>MK # 3</b>	NONE			

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text" value="SALIPOINT"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text" value="MALEPOINT"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text" value="93620004"/>	Cross Reference Job: RX0026     

  

Location Description	
THE STATION IS LOCATED IN THE VILLAGE OF TRASKWOOD, ON THE GROUNDS OF THE TRASKWOOD MISSIONARY BAPTIST CHURCH. IT IS 41.758 METERS NORTHWEST OF OF THE SOUTHWEST CORNER OF THE CHURCH, 49.987 METERS SOUTHWEST OF THE CENTER OF MAIN STREET, 12.19 METERS SOUTHEAST OF THE CENTER OF SECOND STREET AND 9.04 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A BRONZE DISK STAMPED "TRASKWOOD 1964" SET IN A CONCRETE POST AND IS FLUSH WITH THE GROUND. THIS STATION IS A USC&GS SECOND ORDER TRIANGULATION STATION BUT THE COORDINATES ABOVE ARE BASED ON AHTD GPS OBSERVATIONS AND A LEAST SQUARES NETWORK ADJUSTMENT. THESE COORDINATES WERE ESTABLISHED BY USING FIRST ORDER CONTROL POINTS IN ACCORDANCE WITH STANDARD GPS PRACTICES AND NETWORK ADJUSTMENT PROCEDURES.	

  

<b>AZ Mark Station</b>	TRASKWOOD AZ.
<b>Geodetic Azimuth</b>	351 12 45
<b>Grid Azimuth</b>	351 34 43.5

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
RASKWOOD AZ	3/22/1994	AHTD	SALINE	229	R60093

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	598,019.7228	
<b>Easting (M)</b>	339,846.0080	
<b>Elevation (M)*</b>	88.684	
<b>Northing (SFT)</b>	1,962,003.0406	
<b>Easting (SFT)</b>	1,114,978.1112	
<b>Elevation (SFT)*</b>	290.957	

  

<b>Convergence Angle</b>	0	21	59.0237914
<b>Scale Factor</b>	0.999944734		
<b>Elevation Adjust. Factor</b>	0.9999860828		
<b>Combined Adjust. Factor</b>	0.9999308176		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE JCT. OF HWY. 229, MAIN AND FIRST STREETS IN THE VILLAGE OF TRASKWOOD SOUTHEAST OF BENTON, GO NORTHEAST ON EAST FIRST STREET FOR 57.00 METERS (187.01 FEET) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS NORTHWEST OF THE CENTER OF EAST FIRST STREET, 11.60 METERS SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 57.00 METERS NORTHEAST OF THE CENTERLINE OF HWY. 229 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "TRASKWOOD AZ." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	216	27.40	89.9
MK # 2	NONE			
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="TRASKWOOD"/></p> <p>Ref Mon # 2 <input type="text" value="NONE"/></p> <p>Ref Mon # 3 <input type="text" value="NONE"/></p>	<p style="text-align: center;"><b>Comments</b></p> <p>Cross Reference Job: RX0026</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
TRI-COUNTY	2/11/1997	NGS	BAXTER	14	NA

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	185,160.8539	
<b>Easting (M)</b>	363,451.5930	
<b>Elevation (M)*</b>	388.500	
<b>Northing (SFT)</b>	607,481.9015	
<b>Easting (SFT)</b>	1,192,424.1014	
<b>Elevation (SFT)*</b>	1,274.604	

  

<b>Convergence Angle</b>	0	14	9.2067682
<b>Scale Factor</b>	0.999962400		
<b>Elevation Adjust. Factor</b>	0.9999390354		
<b>Combined Adjust. Factor</b>	0.9999014377		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN THE CITY OF BIG FLAT, ON THE FORMER TRI-COUNTY SCHOOL SITE. PROPERTY IS NOW OWNED BY THE CITY. TO REACH THE STATION FROM THE OLD BIG FLAT POST OFFICE BUILDING, GO SOUTH ON STATE HIGHWAY 14 FOR 0.20 MI (0.32 KM) TO THE NEW POST OFFICE ON THE RIGHT. CONTINUE SOUTHERLY ALONG THE HIGHWAY FOR 0.10 MI (0.16 KM) TO THE STATION ON THE LEFT. THE STATION IS 263 FT (80.2 M) SOUTHEAST OF THE CENTERLINE OF HIGHWAY 14, 2.4 FT (0.7 M) NORTH OF FENCE ENCLOSING ATHLETIC FIELD, 261.6 FT (79.7 M) NORTHWEST OF THE CENTERLINE OF THE COUNTY ROAD, 130.75 FT (39.85 M) FROM THE SOUTHWEST CORNER OF THE OLD SCHOOL BUILDING, 158.42 FT (48.29 M) FROM THE NORTHWEST CORNER OF THE FIRE STATION BUILDING, 39.39 FT (12.01 M) SOUTHWEST FROM THE SOUTHWEST CORNER OF A 9 FOOT (2.7 M) SQUARE CONCRETE PAD AND 56.76 FEET (17.30 M) WEST FROM THE SOUTHWEST CORNER OF A SECOND 9 FOOT (2.7 M) SQUARE CONCRETE PAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> TT 3 E 1932	<b>Date Monumented</b> 4/15/1905	<b>Monumented By</b> USC & GS	<b>County</b> UNION	<b>Route</b> 275	<b>Job Number:</b> 070459
-------------------------------	-------------------------------------	----------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	449,390.3043	0.0030			
<b>Easting (M)</b>	366,722.3655	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,474,374.6900				
<b>Easting (SFT)</b>	1,203,154.9608				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	11	58.3503697
<b>Scale Factor</b>	1.000047156		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE AND TELEPHONE BOXES	342	1.52	5.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARMO Ref Mon # 3    IULM	<b>Comments</b> GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
---	---

  

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 129S AND STATE HIGHWAY 275N AND STATE HIGHWAY 82, IN STRONG, GO NORTH ON HIGHWAY 275 1 BLOCK TO THE MARK ON THE RIGHT, IN THE SOUTHEAST CORNER OF THE INTERSECTION, 27.5' EAST OF THE C/L OF HIGHWAY 275 AND SOUTH 28' OF THE C/L OF RAILROAD STREET. THE MARK IS A STANDARD 3' CAP SET IN CONCRTE STAMPED "TT 3 E 1932".			

  

<b>AZ Mark Station</b>	N/A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> TT 30 RDM	<b>Date Monumented</b> 1/1/1959	<b>Monumented By</b> USC&GS	<b>County</b> WHITE	<b>Route</b> 36	<b>Job Number:</b> 005980
-----------------------------	------------------------------------	--------------------------------	------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	109,539.9601	
<b>Easting (M)</b>	398,744.5360	
<b>Elevation (M)*</b>	234.199	
<b>Northing (SFT)</b>	359,382.3524	
<b>Easting (SFT)</b>	1,308,214.3652	
<b>Elevation (SFT)*</b>	768.368	

  

<b>Convergence Angle</b>	0	0	28.9246317
<b>Scale Factor</b>	0.999946454		
<b>Elevation Adjust. Factor</b>	0.9999632479		
<b>Combined Adjust. Factor</b>	0.9999097039		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE POST OFFICE IN THE TOWN OF ROSEBUD, GO EAST ON HWY. 36 FOR 6.196 KM (3.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.10 METERS NORTH OF THE CENTERLINE OF HWY. 36, 16.46 METERS EAST OF THE EAST GATE POST OF A FIELD ENTRANCE, 9.75 METERS WEST OF A POWERLINE POLE, 0.73 METERS NORTH OF A METAL WITNESS POST, 0.70 METERS NORTH OF AN ARKANSAS HIGHWAY DEPARTMENT GPS SURVEY WITNESS POST. THE STATION MARK IS A STANDARD BRONZE CAP STAMPED "TT 30 RDM" SET ON TOP OF A CONCRETE POST THAT IS FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    SEARPORT</p> <p>Ref Mon # 2    HEBEPORT</p> <p>Ref Mon # 3    NONE</p>	<p style="text-align: center;"><b>Comments</b></p> <p>NGS SECOND ORDER MARK</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> TTS C 19	<b>Date Monumented</b> 1/1/1933	<b>Monumented By</b> USGS	<b>County</b> MO / OZARK	<b>Route</b> N/A	<b>Job Number:</b> NA
----------------------------	------------------------------------	------------------------------	-----------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	<b>#Error</b>	<b>Geoid Datum:</b>
<b>Easting (M)</b>	<b>#Error</b>	<b>Latitude</b>
<b>Elevation (M)*</b>	323.113	<b>Longitude</b>
<b>Northing (SFT)</b>	<b>#Type!</b>	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	<b>#Type!</b>	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	1,060.080	

  

<b>Convergence Angle</b>	###	###	<b>#Error</b>
<b>Scale Factor</b>	<b>#Error</b>		
<b>Elevation Adjust. Factor</b>	0.9999492956		
<b>Combined Adjust. Factor</b>	<b>#Type!</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> U 18	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> NA	<b>Route</b> NA	<b>Job Number:</b> 090157
------------------------	------------------------	----------------------	---------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	NONE
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	178,841.7380	
<b>Easting (M)</b>	294,781.0430	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	586,749.9354	
<b>Easting (SFT)</b>	967,127.4719	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	40	42.9360488
<b>Scale Factor</b>	0.999955129		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> U 298	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NGS	<b>County</b> SEBASTIAN	<b>Route</b> N/A	<b>Job Number:</b> 040823
-------------------------	------------------------------------	-----------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	99,923.8262	0.0030	
<b>Easting (M)</b>	191,164.9579	0.0040	
<b>Elevation (M)*</b>			

  

<b>Northing (SFT)</b>	327,833.4198		
<b>Easting (SFT)</b>	627,180.3660		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	20	5.3181417
<b>Scale Factor</b>	0.999956902		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 1985          '6.9 KM (4.25 MI) SOUTH FROM GREENWOOD.          '5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM          THE SEBASTIAN 'COUNTY COURTHOUSE IN GREENWOOD,          THENCE 1.8 KM (1.1 MI) SOUTH ALONG          'U.S. HIGHWAY 71, THENCE 0.16 KM (0.1 MI) EAST ALONG          COUNTY ROAD 51, AT 'THE NORTHWEST CORNER OF CROSS          CEMETERY, 6.3 METERS (20.5 FT) SOUTH OF 'THE          APPROXIMATE CENTER OF THE COUNTY ROAD, 0.31 METERS          (1.0 FT) NORTH OF A CYCLONE FENCE OF THE CEMETERY, 17.6          METERS (57.8 FT) EAST OF A METAL CORNER FENCE POST, 3.0          METERS (10.0 FT) WEST OF THE CENTER OF A WIRE GATE          LEADING TO THE CEMETERY, AND 6.9 METERS (22.7 FT) 'WEST-          SOUTHWEST OF A COUNTY ROAD 51 SIGN POST. NOTE,          DRIVEN TO GRADUAL          'REFUSAL. 'THE MARK IS 0.31 METERS N FROM A WITNESS          POST. 'THE MARK IS ABOVE LEVEL WITH COUNTY ROAD.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    <input type="text" value="ARDQ"/></p> <p>Ref Mon # 2    <input type="text" value="ARFY"/></p> <p>Ref Mon # 3    <input type="text" value="ARRV"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> U 5 OFFSET	<b>Date Monumented</b> 2/1/2006	<b>Monumented By</b> AHTD	<b>County</b> CARROLL	<b>Route</b> NA	<b>Job Number:</b> 090197
------------------------------	------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	231,075.7081	
<b>Easting (M)</b>	257,732.0970	
<b>Elevation (M)*</b>	319.447	
<b>Northing (SFT)</b>	758,120.8857	
<b>Easting (SFT)</b>	845,576.0549	
<b>Elevation (SFT)*</b>	1,048.051	

  

<b>Convergence Angle</b>	0	55	22.5299340
<b>Scale Factor</b>	1.000038640		
<b>Elevation Adjust. Factor</b>	0.9999498709		
<b>Combined Adjust. Factor</b>	0.9999885090		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH OF BERRYVILLE, GO NORTH ON HIGHWAY 221 0.6 MILES TO COUNTY ROAD 403 AND TURN LEFT ON 403 AND GO 0.1 MILES TO COUNTY ROAD 428 AND TURN LEFT ON COUNTY ROAD 428 AND GO 1.0 MILE TO A GRAVEL DRIVE ON THE RIGHT AND TURN RIGHT AND GO 0.3 MILES TO THE STATION MARK LOCATED WEST OF RED METAL BARN. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED " U 5 OFFSET 2006" ON TOP OF A 4 FOOT REBAR DRIVEN SUBSURFACE OF THE GROUND.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BARN	231	23.04	75.6
MK # 2	NORTHEAST CORNER BARN	282	28.77	94.4
MK # 3	LIGHT POLE	78	23.77	78.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARP2 <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARH	ELEVATION WAS DETERMINED BY 3 WIRE LEVEL RUN FROM U5 BY CREW S5102 2/1/06.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> U 79	<b>Date Monumented</b> 1/1/1935	<b>Monumented By</b> NGS	<b>County</b> SALINE	<b>Route</b> 183	<b>Job Number:</b> 061206
------------------------	------------------------------------	-----------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	609,728.4879				
<b>Easting (M)</b>	349,018.1190				
<b>Elevation (M)*</b>	106.347				
<b>Northing (SFT)</b>	2,000,417.5474				
<b>Easting (SFT)</b>	1,145,070.2788				
<b>Elevation (SFT)*</b>	348.907				

  

<b>Convergence Angle</b>	0	18	39.3002713
<b>Scale Factor</b>	0.999959854		
<b>Elevation Adjust. Factor</b>	0.9999833110		
<b>Combined Adjust. Factor</b>	0.9999431656		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARCM	Ref Mon # 3	DQUA	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARCM						
Ref Mon # 3	DQUA						

<b>Vertical Determined By:</b>	2nd Order by NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	34 33 22.7668860
<b>Longitude</b>	92 33 19.8550944
<b>Ellipsoid Height (M):</b>	80.101
<b>Geoid Height (M):</b>	-26.246

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 0.8 MILES TO THE STATION MARK ON THE RIGHT, 107 FEET EAST OF YUMA DRIVE. SOUTH 14.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.0 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD DISK, STAMPED "U 79 1935" SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 FEET ABOVE THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> V 165	<b>Date Monumented</b> 1/1/1955	<b>Monumented By</b> USC&GS	<b>County</b> INDEPENDENCE	<b>Route</b> 167	<b>Job Number:</b> 050070
-------------------------	------------------------------------	--------------------------------	-------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	176,732.1239	
<b>Easting (M)</b>	440,576.2460	
<b>Elevation (M)*</b>	203.766	
<b>Northing (SFT)</b>	579,828.6432	
<b>Easting (SFT)</b>	1,445,457.2338	
<b>Elevation (SFT)*</b>	668.522	

  

<b>Convergence Angle</b>	0	15	41.8985692
<b>Scale Factor</b>	0.999953622		
<b>Elevation Adjust. Factor</b>	0.9999680235		
<b>Combined Adjust. Factor</b>	0.9999216470		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: Q 313	Elevation established by NGS
Ref Mon # 2: FAA 7M9 A	
Ref Mon # 3: BATEPORT	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> V 26	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> CGS	<b>County</b> BENTON	<b>Route</b> 71	<b>Job Number:</b> 090240, 09X007, 090472
------------------------	------------------------------------	-----------------------------	-------------------------	--------------------	--

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	215,327.1421	
<b>Easting (M)</b>	208,482.3437	
<b>Elevation (M)*</b>	409.333	
<b>Northing (SFT)</b>	706,452.4654	
<b>Easting (SFT)</b>	683,995.8226	
<b>Elevation (SFT)*</b>	1,342.953	

  

<b>Convergence Angle</b>	-1	14	24.4376066
<b>Scale Factor</b>	1.000004459		
<b>Elevation Adjust. Factor</b>	0.9999357664		
<b>Combined Adjust. Factor</b>	0.9999402251		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Latitude</b>	36	15	19.7589384
<b>Longitude</b>	94	7	52.1851548
<b>Ellipsoid Height:</b>	381.130		
<b>Grid Northing (Meters)</b>	215,327.1340		
<b>Grid Easting (Meters)</b>	208,482.3330		

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 15 KM (9.30 MI) SOUTHEAST OF BENTONVILLE, 9 KM (5.60 MI) SOUTH OF ROGERS, ON THE EAST SIDE OF THE TOWN OF LOWELL, BETWEEN A RAILROAD AND A PAVED CITY STREET. OWNERSHIP--BURLINGTON NORTHERN RAILROAD. TO REACH FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 71 (IN 1996 THIS HIGHWAY WILL BE INTERSTATE HIGHWAY 540) AND STATE HIGHWAY 264 (EXIT 59) ON THE WEST SIDE OF LOWELL, GO EAST ON HIGHWAY 264 (MONROE AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD (U.S. HIGHWAY 71B). TURN LEFT, NORTH ON HIGHWAY 71B (NORTH BLOOMINGTON STREET) FOR 0.39 KM (0.25 MI) TO A PAVED CROSSROAD. TURN RIGHT, EAST ON MCCLURE AVENUE FOR 0.44 KM (0.25 MI) TO A PAVED CROSSROAD JUST PAST A RAILROAD CROSSING. TURN RIGHT, SOUTH ON JACKSON STREET FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 30 CM SQUARE CONCRETE POST PROJECTING 10 CM ABOVE THE GROUND. IT IS 68.4 M (224.4 FT) NORTH-NORTHWEST OF A FIRE HYDRANT LOCATED ABOUT IN LINE WITH THE EXTENDED CENTER OF ADAMS AVENUE, 21.5 M (70.5 FT) WEST-SOUTHWEST OF THE CENTER OF JACKSON STREET, 13.1 M (43.0 FT) EAST-NORTHEAST OF THE EAST RAIL OF THE EAST SET OF TRACKS AND 0.5 M (1.6 FT) NORTHEAST</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>NGS 1st ORDER MARK USED AS CONSTRAINT IN FINAL GPS STATIC NETWORK ADJUSTMENT IN NOV. 2015 BY S5112 FOR JOB #090472 TO ESTABLISH VERTICAL ON GPS MONUMENTS 040042 &amp; 040042A.</p>
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> V 289 1984	<b>Date Monumented</b>	<b>Monumented By</b> NOAA	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> R20091
------------------------------	------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	561,854.8770	
<b>Easting (M)</b>	421,143.3030	
<b>Elevation (M)*</b>	57.015	
<b>Northing (SFT)</b>	1,843,352.2090	
<b>Easting (SFT)</b>	1,381,700.9866	
<b>Elevation (SFT)*</b>	187.057	

  

<b>Convergence Angle</b>	0	7	41.8486726
<b>Scale Factor</b>	0.999919735		
<b>Elevation Adjust. Factor</b>	0.9999910526		
<b>Combined Adjust. Factor</b>	0.9999107883		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF RED BRICK HOU	51	24.38	80.0
MK # 2	GAS METER	78	1.43	4.7
MK # 3	TELEPHONE JUNCTION BOX NUMBER 27 3	347	0.91	3.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: TARRY 1940	THIS STATION IS A NOAA BENCH MARK.
Ref Mon # 2: DIST2 1995	
Ref Mon # 3: NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> V 289 AZ 1995	<b>Date Monumented</b> 7/19/1995	<b>Monumented By</b> AHTD	<b>County</b> JEFFERSON	<b>Route</b> 65	<b>Job Number:</b> R20091
---------------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	562,310.9220	
<b>Easting (M)</b>	420,796.9490	
<b>Elevation (M)*</b>	56.806	
<b>Northing (SFT)</b>	1,844,848.4166	
<b>Easting (SFT)</b>	1,380,564.6568	
<b>Elevation (SFT)*</b>	186.371	

  

<b>Convergence Angle</b>	0	7	34.3049739
<b>Scale Factor</b>	0.999919852		
<b>Elevation Adjust. Factor</b>	0.9999910854		
<b>Combined Adjust. Factor</b>	0.9999109381		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	GAS METER	10	3.10	10.2
<b>MK # 2</b>	POWER POLE NUMBER 3525	48	2.15	7.1
<b>MK # 3</b>	18" CONCRETE PIPE	155	17.00	55.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> TARRY 1940 <b>Ref Mon # 2</b> DIST2 1995 <b>Ref Mon # 3</b> NONE	THE ELEVATION OF THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "V 289 1984".

  

Location Description	
FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO SOUTH ON HWY. 65 FOR 2.945 KM (1.83 MILES) TO THE STATION ON THE LEFT. THE STATION IS 24.0 METERS SOUTH OF A GRAVEL DRIVE, 19.40 METERS NORTH OF A GRAVEL DRIVE, 16.50 METERS NORTHEAST OF THE CENTER OF HWY. 65 AND 1.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "V 289 A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.10 METERS BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	V 289 1984
<b>Geodetic Azimuth</b>	142 54 37.78325
<b>Grid Azimuth</b>	142 47 03.48744

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> V 333	<b>Date Monumented</b> 2/2/2012	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 112	<b>Job Number:</b> 012270
-------------------------	------------------------------------	-------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	199,911.9209    0.0010
<b>Easting (M)</b>	203,733.8464    0.0010
<b>Elevation (M)*</b>	373.889
<b>Northing (SFT)</b>	655,877.6938
<b>Easting (SFT)</b>	668,416.7944
<b>Elevation (SFT)*</b>	1,226.667

  

<b>Convergence Angle</b>	-1	16	7.1379893
<b>Scale Factor</b>	0.999978858		
<b>Elevation Adjust. Factor</b>	0.9999413281		
<b>Combined Adjust. Factor</b>	0.9999201873		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	268	5.61	18.4
MK # 2	SE CORNER 1-S-BRICK BLDING	55	16.76	55.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOA2</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	CTA1	Ref Mon # 3	MOA2	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 &amp; S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 1	ARFY								
Ref Mon # 2	CTA1								
Ref Mon # 3	MOA2								
Comments									
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.									

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid12B
<b>Latitude</b>	36    6    56.3797296
<b>Longitude</b>	94    10    48.6764616
<b>Ellipsoid Height (M):</b>	345.801    0.0001
<b>Geoid Height (M):</b>	-28.088    0.0000

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 0.7 MILES TO THE MARK ON THE RIGHT, 138.6' EAST OF THE C/L OF THE HIGHWAY AND NORTH 21.9' OF THE C/L OF A CONCRETE DRIVE TO ARDOT MAINTENANCE YARD. THE MARK IS A STANDARD NGS ROD MARK SET UNDER A A LOGO CAP STAMPED "2012 V 333" DRIVEN TO REFUSAL.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> VILLPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> MISSISSIPPI	<b>Route</b> 18	<b>Job Number:</b> NA
----------------------------	------------------------------------	-----------------------------	------------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	180,700.0459	
<b>Easting (M)</b>	595,632.0580	
<b>Elevation (M)*</b>	77.100	
<b>Northing (SFT)</b>	592,846.7339	
<b>Easting (SFT)</b>	1,954,169.5103	
<b>Elevation (SFT)*</b>	252.952	

  

<b>Convergence Angle</b>	1	15	42.5432827
<b>Scale Factor</b>	0.999955449		
<b>Elevation Adjust. Factor</b>	0.9999879006		
<b>Combined Adjust. Factor</b>	0.9999433502		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HUFFMAN, 7 KM (4.35 MI) EAST OF BLYTHEVILLE, 3 KM (1.85 MI) NORTH OF ARMOREL, AT THE BLYTHEVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF BLYTHEVILLE, PO BOX 171, BLYTHEVILLE AR 72315, AIRPORT MANAGER IS WALLEY THOMAS, PHONE 501-763-9691. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 55 AND STATE HIGHWAY 18 (EXIT 67) IN EAST BLYTHEVILLE, GO EAST ON HIGHWAY 18 FOR 2.43 KM (1.50 MI) TO THE AIRPORT ENTRANCE ROAD (COUNTY HIGHWAY 980) ON THE LEFT. TURN LEFT, NORTHEAST AND EAST ON THE ROAD FOR 1.89 KM (1.15 MI) TO A GATE AND THE AIRPORT OFFICE ON THE LEFT. PASS THROUGH THE GATE, EAST ACROSS THE APRON FOR ABOUT 30 M (98.4 FT) TO A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.61 KM (0.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 93 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 63.3 M (207.7 FT) WEST OF THE RUNWAY CENTER, 26.0 M (85.3 FT) WEST OF THE EXTENDED CENTER OF THE STOP LINE, 17.2 M (56.4 FT) WEST OF THE WEST END OF THE NORTH HEADWALL OF A CULVERT</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> VINE	<b>Date Monumented</b> 1/1/1971	<b>Monumented By</b> USC&GS	<b>County</b> CRAWFORD	<b>Route</b> N/A	<b>Job Number:</b> 040351
------------------------	------------------------------------	--------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> NONE
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NONE
<b>Northing (M)</b> 133,167.6441		<b>Geoid Datum:</b> 
<b>Easting (M)</b> 208,297.3830		<b>Latitude</b> 35 30 54.4656780
<b>Elevation (M)*</b> 		<b>Longitude</b> 94 6 48.9523716
<b>Northing (SFT)</b> 436,900.8457		<b>Ellipsoid Height (M):</b> 116.296
<b>Easting (SFT)</b> 683,388.9974		<b>Geoid Height (M):</b> -29.203
<b>Elevation (SFT)*</b> 		

  

<b>Convergence Angle</b> -1 13 47.6427503	<b>Location Description</b>  TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.058 KM (1.90 MI) TO GEORGIA RIDGE ROAD, TURN LEFT (NORTH) ON GEORGIA RIDGE ROAD AND GO NORTH 0.435 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.50 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANES OF I 40, 6.35 METERS WEST OF THE CENTER OF GEORGIA RIDGE ROAD, AND 1.080 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS TRIANGULATION STATION DISK STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.
<b>Scale Factor</b> 0.999936659	
<b>Elevation Adjust. Factor</b> 	
<b>Combined Adjust. Factor</b> 	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	USC&GS REFERENCE MARK NUMBER 2	147	9.30	30.5
<b>MK # 2</b>	SOUTHWEST CORNER OF OVERPASS	9	1.20	3.9
<b>MK # 3</b>	SOUTHEAST CORNER OF OVERPASS	46	13.00	42.7

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> GAYLOR <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> AHTD FS 2	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> VINE AZ	<b>Date Monumented</b> 1/1/1971	<b>Monumented By</b> USC&GS	<b>County</b> CRAWFORD	<b>Route</b> 64	<b>Job Number:</b> 040351
---------------------------	------------------------------------	--------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	132,705.2320	
<b>Easting (M)</b>	208,328.4330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	435,383.7487	
<b>Easting (SFT)</b>	683,490.8673	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	13	46.6966550
<b>Scale Factor</b>	0.999936749		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.09 KM (1.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64, 13.60 METERS EAST OF A GRAVEL DRIVE, AND 0.56 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&amp;GS DISK (AZIMUTH MARK) STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT THAT IS SET 3 INCHES ABOVE THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	87	14.00	45.9		VINE
MK # 2	GUY POLE	170	0.49	1.6		354 55 44
MK # 3	CORRIGATED METAL PIPE	305	11.20	36.7		356 09 31

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> GAYLOR <b>Ref Mon # 2</b> OZARPORT <b>Ref Mon # 3</b> AHTD FS 2	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> W 15 OFFSET	<b>Date Monumented</b> 1/2/1932	<b>Monumented By</b> AHTD	<b>County</b> CROSS	<b>Route</b> 284	<b>Job Number:</b> R10071
-------------------------------	------------------------------------	------------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	99,622.2142	
<b>Easting (M)</b>	509,764.8040	
<b>Elevation (M)*</b>	76.214	
<b>Northing (SFT)</b>	326,843.8811	
<b>Easting (SFT)</b>	1,672,453.3611	
<b>Elevation (SFT)*</b>	250.045	

  

<b>Convergence Angle</b>	0	42	5.9464082
<b>Scale Factor</b>	0.999955447		
<b>Elevation Adjust. Factor</b>	0.9999880397		
<b>Combined Adjust. Factor</b>	0.9999434872		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, U.S. HIGHWAY 64S AND STATE HIGHWAY 1, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO SOUTH ON U.S. HIGHWAY 64S FOR 1.16 KM (1.00 MI) TO THE END OF U.S. HIGHWAY 64S AND THE BEGINING OF M.L. KING STREET, CONTINUE SOUTH ON M.L. KING STREET FOR 1.45 KM (0.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.70 METERS WEST OF THE CENTER OF M.L. KING STREET, 24.45 METERS NORTH OF NORTH RAIL, 21.25 SOUTH OF SOUTH RAIL AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "W 15 OFFSET" SET ON TOP OF AN IROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 665.917.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NONE			
<b>MK # 2</b>	NONE			
<b>MK # 3</b>	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    BRINKLEYPORT</p> <p><b>Ref Mon # 2</b>    NEWSPORT</p> <p><b>Ref Mon # 3</b>    MEM2</p>	<p style="text-align: center;"><b>Comments</b></p> <p>3 WIRE LEVEL FROM NGS PT W 15</p>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> W 201	<b>Date Monumented</b> 1/1/1960	<b>Monumented By</b> CGS	<b>County</b> UNION	<b>Route</b> N/A	<b>Job Number:</b> 070418
-------------------------	------------------------------------	-----------------------------	------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	464,750.5548	0.0026	
<b>Easting (M)</b>	367,416.4848	0.0026	
<b>Elevation (M)*</b>	48.262		
<b>Northing (SFT)</b>	1,524,769.1119		
<b>Easting (SFT)</b>	1,205,432.2505		
<b>Elevation (SFT)*</b>	158.340		

  

<b>Convergence Angle</b>	0	11	44.4993188
<b>Scale Factor</b>	1.000011479		
<b>Elevation Adjust. Factor</b>	0.9999924262		
<b>Combined Adjust. Factor</b>	1.0000039051		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1    ARCM Ref Mon # 2    ARMO Ref Mon # 3    LTEC, IULM	<b>Comments</b> USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> W 310	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> 04X114
-------------------------	------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	183,335.8915	0.0030			
<b>Easting (M)</b>	204,485.3387	0.0040			
<b>Elevation (M)*</b>	393.897				

  

<b>Northing (SFT)</b>	601,494.5040				
<b>Easting (SFT)</b>	670,882.3154				
<b>Elevation (SFT)*</b>	1,292.310				

  

<b>Convergence Angle</b>	-1	15	41.1654917		
<b>Scale Factor</b>	0.999958125				
<b>Elevation Adjust. Factor</b>	0.9999381885				
<b>Combined Adjust. Factor</b>	0.9998963161				

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

**Location Description**  
  
 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 156E, SOUTH OF FAYETTEVILLE, GO SOUTH ON HIGHWAY 71 4.0 MILES THE MARK ON THE RIGHT, WEST 33.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN INTO THE GROUND SUROUNDED BY A NGS CASE.

  

**Location Reference Marks**

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
<b>MK # 1</b>	LIGHT POLE	343	13.75	45.1	720069
<b>MK # 2</b>	SOUTHEAST CORNER OF BARN	265	15.20	49.9	
<b>MK # 3</b>	COMBINATION POLE W/4 GUYS	190	9.75	32.0	

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFS  Ref Mon # 2    ARFY  Ref Mon # 3    ARR V	<div style="border: 1px solid black; padding: 5px; height: 100px;"> <b>Comments</b> </div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> W 343	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> NGS	<b>County</b> MO / GREENE	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	377.603	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	1,238.853	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999407453
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
W H PHILLIPS	4/19/1997	NGS	NEWTON	7	090288

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	185,252.9629	
<b>Easting (M)</b>	293,320.2940	
<b>Elevation (M)*</b>	387.100	
<b>Northing (SFT)</b>	607,784.0958	
<b>Easting (SFT)</b>	962,334.9979	
<b>Elevation (SFT)*</b>	1,270.011	

  

<b>Convergence Angle</b>	0	41	18.6366084
<b>Scale Factor</b>	0.999961861		
<b>Elevation Adjust. Factor</b>	0.9999392551		
<b>Combined Adjust. Factor</b>	0.9999011184		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ON THE NEWTON COUNTY FAIRGROUNDS SOUTH OF JASPER. TO REACH THE STATION FROM THE NEWTON COUNTY COURTHOUSE IN JASPER, GO SOUTH ON STATE HIGHWAY 7 FOR 1.4 MI (2.3 KM) TO A SIDE ROAD, THE ENTRANCE TO FAIRGROUNDS. TURN LEFT, EAST, AND ENTER FAIRGROUNDS FOLLOWING THE FIRST DIRT ROAD TO THE NORTHWEST FOR 400 FEET (121.9 M) TO THE FAIRGROUNDS PARKING AREA AND THE STATION ON THE RIGHT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 12 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 232.5 FEET (70.9 M) SOUTHEAST FROM THE SOUTHEAST CORNER OF THE OLD FAIRGROUND BATHROOMS, 152.4 FEET (46.5 M) SOUTHWEST FROM THE SOUTHWEST CORNER OF THE MILDRED AND ROSS ATKINSOM BUILDING AND 193.08 FEET (58.85 M) NORTHWEST FROM THE NORTHWEST CORNER OF THE SOUTHWEST POST ON THE BRICK WAR MEMORIAL NEAR THE FAIRGROUNDS ENTRANCE.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> W H Phillips-1	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b> NA	<b>Route</b> NA	<b>Job Number:</b> 090157
----------------------------------	------------------------	----------------------	---------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><b>Location Description</b></div> <div style="border: 1px solid black; height: 250px; width: 100%;"></div>
<b>Convergence Angle</b>	###/###	
<b>Scale Factor</b>	#Error	
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>	#Type!	

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2					Grid Azimuth	
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> WALNUT	<b>Date Monumented</b> 1/1/1993	<b>Monumented By</b> NGS	<b>County</b> OK / LEFLORE	<b>Route</b> N/A	<b>Job Number:</b> NA
--------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (1997)
<b>Northing (M)</b>	613,562.0099
<b>Easting (M)</b>	169,934.8160
<b>Elevation (M)*</b>	603.600
<b>Northing (SFT)</b>	2,012,994.6941
<b>Easting (SFT)</b>	557,527.8088
<b>Elevation (SFT)*</b>	1,980.311

  

<b>Convergence Angle</b>	-1	24	12.1508001
<b>Scale Factor</b>	0.999961523		
<b>Elevation Adjust. Factor</b>	0.9999052844		
<b>Combined Adjust. Factor</b>	0.9998668111		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 18 KM (11.20 MI) NORTHEAST OF SMITHVILLE, 4 KM (2.50 MI) NORTH OF THE LE FLORE COUNTY LINE, 2 KM (1.25 MI) WEST OF THE ARKANSAS BORDER, IN BRUSH IN A SMALL CLEARING, IN THE SOUTHEAST ONE OF FOUR TOWER LEG FOUNDATIONS, ON THE HIGHEST POINT ON WALNUT MOUNTAIN IN OUACHITA NATIONAL FOREST. OWNERSHIP--U.S. GOVERNMENT. TO REACH FROM THE T-JUNCTION OF US HIGHWAY 259 AND STATE HIGHWAY 4 ON THE WEST SIDE OF SMITHVILLE, GO NORTH ON HIGHWAY 259 FOR 5.05 KM (3.15 MI) TO THE LE FLORE COUNTY LINE. CONTINUE AHEAD, NORTH-NORTHWEST, ON HIGHWAY 259 FOR 0.78 KM (0.50 MI) TO A GRAVEL CROSSROAD. TURN RIGHT, EAST, ON THE GRAVEL ROAD FOR 5.97 KM (3.70 MI) TO A WOODEN BRIDGE OVER A CREEK. CONTINUE AHEAD, NORTHEAST, ON THE GRAVEL ROAD FOR 2.99 KM (1.85 MI) TO A WOODEN BRIDGE JUST AFTER A DIRT CROSSROAD. CONTINUE AHEAD, EAST, ON THE GRAVEL ROAD FOR 2.83 KM (1.75 MI) TO A GRAVEL CROSSROAD JUST AFTER THE BEGINNING OF PAVEMENT. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.22 KM (0.75 MI) TO THE CENTER ONE OF THREE SMALL WOODEN BRIDGES. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.91 KM (1.20 MI) TO A DOUBLE DIRT Y-JUNCTION ON THE</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> WARRPORT	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> BRADLEY	<b>Route</b> 63	<b>Job Number:</b> 001873,020462
----------------------------	------------------------------------	-----------------------------	--------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	499,483.1021	
<b>Easting (M)</b>	392,347.3200	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,638,720.8108	
<b>Easting (SFT)</b>	1,287,226.1657	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	46.0664313
<b>Scale Factor</b>	0.999952015		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON US HIGHWAY 63 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PINCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP. IT IS 32.8 M (107.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 31.8 M (104.3 FT) SOUTH OF A RUNWAY LIGHT AND 6.9 M (22.6 FT) NORTHEAST OF THE CENTERLINE OF A TAXIWAY. THE AIRPORT IS UNATTENDED AND PERSONNEL ARE HARD TO CONTACT. LOCK COMBINATION IS 2239.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
WARRPORT AZ	1/1/1990	NGS	BRADLEY	63	001873,020462

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	498,690.3972	
<b>Easting (M)</b>	391,796.2990	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,636,120.0781	
<b>Easting (SFT)</b>	1,285,418.3576	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	58.0089717
<b>Scale Factor</b>	0.999953040		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON STATE HIGHWAY 15 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY. TURN LEFT AND GO SOUTHWEST ON THE RUNWAY FOR 0.93 KM (0.58 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP. SET 21.2 M (69.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 16.8 M (55.1 FT) SOUTH OF A RUNWAY LIGHT, 12.8 M (42.0 FT) NORTHEAST OF THE NORTHEAST EDGE OF A TURNAROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
Washington PN-2	7/18/2002	AHTD	WASHINGTON	71	4620_7

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	180,585.4519	
<b>Easting (M)</b>	203,438.3910	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	592,470.7701	
<b>Easting (SFT)</b>	667,447.4545	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	4.0614050
<b>Scale Factor</b>	0.999955316		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Guard rail post	355	8.10	26.6
MK # 2	Pipe gate post	109	15.10	49.5
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 100%;" type="text" value="Gaylor"/> <b>Ref Mon # 2</b> <input style="width: 100%;" type="text" value="ENES"/> <b>Ref Mon # 3</b> <input style="width: 100%;" type="text" value="Sali1"/>	

<b>Vertical Determined By:</b>	NONE
<b>Elevation Datum:</b>	NONE
<b>Geoid Datum:</b>	
<b>Latitude</b>	35 56 29.2670340
<b>Longitude</b>	94 10 43.3893180
<b>Ellipsoid Height (M):</b>	372.607
<b>Geoid Height (M):</b>	-27.967

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY-156 IN WEST FORK. GO NORTH ON HWY-71 FOR 0.75 MILES TO THE STATION ON THE RIGHT. 10.4 METERS EAST OF THE CENTER OF HWY-71 AND 8.50 METERS NORTH OF THE CENTER OF A PAVED DRIVE LEADING INTO A SALVAGE YARD.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
Washington PN-3	7/18/2002	AHTD	WASHINGTON	71	4620_7

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,058.0159	
<b>Easting (M)</b>	203,546.3330	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	594,021.1738	
<b>Easting (SFT)</b>	667,801.5942	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	1.7984994
<b>Scale Factor</b>	0.999955784		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY- IN WEST FORK, GO NORTH ON HWY-71 FOR 1.05 MILES TO THE STATION ON THE LEFT. 9.35 METERS WEST OF THE CENTER OF HWY-71 AND 7.0 METERS NORTH OF A PAVED DRIVEWAY.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Telephone junction box	219	16.50	54.1
<b>MK # 2</b>	south front porch post at "Wisdom's clock shop"	302	12.80	42.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="Gaylor"/> <b>Ref Mon # 2</b> <input type="text" value="ENES"/> <b>Ref Mon # 3</b> <input type="text" value="Sali1"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
Washington PN-4	7/18/2002	AHTD	WASHINGTON	71	4620_7

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas North	301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	181,222.6289	
<b>Easting (M)</b>	203,611.3430	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	594,561.2416	
<b>Easting (SFT)</b>	668,014.8812	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	16	0.3739077
<b>Scale Factor</b>	0.999955948		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Fence corner	185	23.20	76.1
<b>MK # 2</b>	Gas meter	007	26.10	85.6
<b>MK # 3</b>				

  

<b>AZ Mark Station</b>	Washington PN-3
<b>Geodetic Azimuth</b>	200 17 01
<b>Grid Azimuth</b>	201 33 01

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	Gaylor
<b>Ref Mon # 2</b>	ENES
<b>Ref Mon # 3</b>	Sali1

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
WHV 16 NO 1	1/1/1950	AHTD	LAFAYETTE	SR-160	030455

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas South	302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	446,971.6974	0.0020			
<b>Easting (M)</b>	251,674.5197	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,466,439.6439				
<b>Easting (SFT)</b>	825,702.1534				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	53	20.7858202
<b>Scale Factor</b>	1.000056119		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-29 AND SR-160, IN BRADLEY, GO EAST ON SR-160 3.9 MILES TO THE STATION ON THE RIGHT. 31.5' SOUTH OF THE C/L OF THE HIGHWAY AND 34' WEST OF C/L DRIVE. THE MARK IS A 3" BRASS CAP STAMPED "WHV 16 NO 1 1950" SET IN A CONCRETE POST 4" ABOVE THE GROUND.			

  

<b>Location Reference Marks</b>					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	37	23.38	76.7	370019
MK # 2					
MK # 3					

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
KINS W BASE RE	1/1/1970	CGS	TX / UPSHUR	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>
Arkansas South	
<b>Horizontal Datum</b>	
<b>Northing (M)</b>	#Error
<b>Easting (M)</b>	#Error
<b>Elevation (M)*</b>	104.510
<b>Northing (SFT)</b>	#Type!
<b>Easting (SFT)</b>	#Type!
<b>Elevation (SFT)*</b>	342.880

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			0.9999835992
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>RECOVERED IN DISTURBED CONDITION. THE STATION IS FOUND LEANING FIVE DEGREES TO THE SOUTH. THE METAL SIGN POST OF RECORD WAS FOUND BEARING ON THE NORTH EDGE OF THE CONCRETE POST AND WAS REMOVED. NOTE THAT THE SOIL IS ALL WASHED SAND OF SEDIMENTARY ORIGIN. THE 1993 TO REACH IS VALID. RM 1 AND RM 2 NOT FOUND AND PRESUMED DESTROYED AS PER 1970 DESCRIPTION. RM 3 AND RM 4 RECOVERED IN GOOD CONDITION. THE AZIMUTH MARK IS RECOVERED IN DESTROYED CONDITION WITH THE CONCRETE POST BROKEN, IN BIG SANDY NORTHEAST FROM THE JUNCTION OF SOUTH PEARL AND EAST COTTON, AT THE BASE OF A TOWER. NOTE THAT THE 1970 POST OFFICE IS NOW THE CITY HALL ON GILMER STREET. THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) WEST OF LONGVIEW, 14 KM (8.70 MI) NORTH OF INTERSTATE HIGHWAY 20, 3 KM (1.85 MI) EAST OF BIG SANDY IN A GRASSY AREA EAST OF A GROUP OF PINE TREES, ON THE SOUTH SIDE OF THE AMBASSADOR COLLEGE CAMPUS AND IN THE RIGHT OF WAY OF US HIGHWAY 80. OWNERSHIP--TEXAS DEPARTMENT OF TRANSPORTATION, 11TH AND BRAZOS, AUSTIN TX 78701, PHONE 512-465-7337. TO REACH THE STATION FROM THE EASTERLY JUNCTION OF US HIGHWAY 80 (BROADWAY) AND STATE HIGHWAY 155 (TYLER) IN BIG</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>AZ Mark Station</b>	WILKINS W BASE AZ MK
<b>Geodetic Azimuth</b>	278 01 08.4
<b>Grid Azimuth</b>	276 09 03.5

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
WINN RM A	1/1/1965	CGS	§ / WASHINGTON	N/A	NA

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas South	302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	490,669.2887	0.0024			
<b>Easting (M)</b>	482,859.9312	0.0027			
<b>Elevation (M)*</b>	42.600				
<b>Northing (SFT)</b>	1,609,804.1580				
<b>Easting (SFT)</b>	1,584,182.9576				
<b>Elevation (SFT)*</b>	139.764				

  

<b>Convergence Angle</b>	0	29	56.3851516
<b>Scale Factor</b>	0.999964818		
<b>Elevation Adjust. Factor</b>	0.9999933147		
<b>Combined Adjust. Factor</b>	0.9999581330		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED ABOUT 5.8 MI (9.3 KM) NORTHWEST OF GREENVILLE, 3.2 MI (5.1 KM) SOUTHWEST OF WINTERVILLE, IN SECTION 6, T 19 N, R 9 W, ON THE EAST BANK OF THE MISSISSIPPI RIVER AND ON STATE PROPERTY. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 1 IN GREENVILLE, GO NORTH FOR 6.95 MI (11.18 KM) ON STATE HIGHWAY 1 TO A CROSSROAD. TURN LEFT AND GO WEST FOR 2.4 MI (3.9 KM) ON WINN ROAD TO A GRAVELED FORK. TURN LEFT AND GO SOUTHWEST FOR 0.05 MI (0.08 KM) TO THE TOP OF LEVEE. CONTINUE SOUTH FOR 0.48 MI (0.77 KM) ON THE LEVEE ROAD TO A DIM ROAD LEFT AND THE STATION ON LEFT, JUST BEFORE REACHING THE JUNCTION OF A LEVEE ROAD WEST. THE STATION IS FLUSH WITH GROUND. LOCATED 118 FT (36.0 M) EAST FROM THE CENTER OF THE LEVEE ROAD, 113 FT (34.4 M) SOUTH FROM AN OLD FENCE LINE, 12.7 FT (3.9 M) NORTHEAST FROM WINN RM 5 AND 2.0 FT (0.6 M) SOUTHEAST FROM A WITNESS POST.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Position and elevation from NGS datasheet.     

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> WINSTON	<b>Date Monumented</b> 1/1/1957	<b>Monumented By</b> CGS	<b>County</b> MS / BOLIVAR	<b>Route</b> N/A	<b>Job Number:</b> NA
---------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	539,075.7034	0.0017	
<b>Easting (M)</b>	515,173.8635	0.0014	
<b>Elevation (M)*</b>	44.692		
<b>Northing (SFT)</b>	1,768,617.5369		
<b>Easting (SFT)</b>	1,690,199.5838		
<b>Elevation (SFT)*</b>	146.627		

  

<b>Convergence Angle</b>	0	41	49.6530487
<b>Scale Factor</b>	0.999920656		
<b>Elevation Adjust. Factor</b>	0.9999929864		
<b>Combined Adjust. Factor</b>	0.9999136430		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>THE STATION IS LOCATED IN WINSTONVILLE, NEAR THE NORTHWEST CORNER OF A TRIANGULAR SHAPED GRASS AREA SOUTHEAST OF THE JUNCTION OF MACK WILLIAMS ST AND BLAKE AV. OWNERSHIP--UNKNOWN. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND WINSTON ST NEAR THE CENTER OF WINSTONVILLE AND IN FRONT OF THE POST OFFICE, GO NORTHWEST FOR 0.5 KM (0.30 MI) ON HIGHWAY 61 TO THE JUNCTION OF MACK WILLIAMS ST. TURN LEFT, WEST FOR 0.2 KM (0.10 MI) ALONG MACK WILLIAMS STREET TO THE STATION ON THE LEFT, JUST BEFORE A T-JUNCTION WITH BLAKE AV. STATION IS 36.8 M (120.7 FT) WEST-NORTHWEST OF THE NORTHWEST CORNER OF THE PERSONAL CARE HOME, 30.5 M (100.1 FT) WEST OF THE CENTER OF GRAVEL ENTRANCE TO COVERSTONE PERSONAL CARE HOME AT 102 MACK WILLIAMS ST, 24.05 M (78.90 FT) NORTH-NORTHWEST OF WINSTON RM 2 AND WITNESS POST, 22.3 M (73.2 FT) EAST-NORTHEAST OF THE CENTER OF BLAKE AV, 10.7 M (35.1 FT) SOUTH OF THE CENTER OF MACK WILLIAMS STREET, 4.5 M (14.8 FT) SOUTH OF A WITNESS POST, ABOUT LEVEL WITH THE STREET AND FLUSH WITH GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> WRB	<b>Date Monumented</b> 1/1/1936	<b>Monumented By</b> NGS	<b>County</b> FAULKNER	<b>Route</b> 36	<b>Job Number:</b> 080384
-----------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	87,909.5701				
<b>Easting (M)</b>	374,119.9770				
<b>Elevation (M)*</b>	125.555				
<b>Northing (SFT)</b>	288,416.6479				
<b>Easting (SFT)</b>	1,227,425.2912				
<b>Elevation (SFT)*</b>	411.925				

  

<b>Convergence Angle</b>	0	9	54.8110409
<b>Scale Factor</b>	0.999967798		
<b>Elevation Adjust. Factor</b>	0.9999802967		
<b>Combined Adjust. Factor</b>	0.9999480953		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
DESCRIBED BY NATIONAL GEODETIC SURVEY 19629.8 MI NW FROM VILONIA.5.7 MILES WEST ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE AT VILONIA,THENCE 4.1 MILES NORTH ALONG STATE HIGHWAY 36, 48 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 45 FEET SOUTHWEST OF A POWER POLE, 13 FEETWEST OF A METAL WITNESS POST, 4.4 FEET NORTH OF A FENCE, ABOUT 4 FEET ABOVE THE LEVEL OF THE HIGHWAY, SET IN TOP OF A SQUARE CONCRETE POSTPROJECTING 4 INCHES ABOVE GROUND SURFACE.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARLR Ref Mon # 2    ARHR Ref Mon # 3    ARBT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
WYATT 1941	7/24/1995	USC&GS	UNION	82	070104, 070367, 070368

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,294.2147	
<b>Easting (M)</b>	331,510.2092	
<b>Elevation (M)*</b>	78.502	
<b>Northing (SFT)</b>	1,510,148.6027	
<b>Easting (SFT)</b>	1,087,629.7447	
<b>Elevation (SFT)*</b>	257.553	

  

<b>Convergence Angle</b>	0	24	40.1301021
<b>Scale Factor</b>	1.000021662		
<b>Elevation Adjust. Factor</b>	0.9999876806		
<b>Combined Adjust. Factor</b>	1.0000093423		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	12	29.0237688
<b>Longitude</b>	92	44	4.5408480
<b>Ellipsoid Height:</b>	51.745		
<b>Grid Northing (Meters)</b>	460,294.5410		
<b>Grid Easting (Meters)</b>	331,510.4530		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL LIGHT POLE	260	2.65	8.7
MK # 2	20" METAL CULVERT	315	10.00	32.8
MK # 3	COMBINATION POLE	88	22.80	74.8

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	NORPHLET 1952
Ref Mon # 2	700001
Ref Mon # 3	NONE

  

**Vertical Determined By:** 3rd Order - Digital Level

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid09

**Latitude** 33 12 29.0131200

**Longitude** 92 44 4.5501720

**Ellipsoid Height (M):** 52.235

**Geoid Height (M):** -26.275

  

**Location Description**

FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.6 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST FOR 3.54 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH AND THE STATION ON THE LEFT IN FRONT OF THE WYATT BAPTIST CHURCH. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 12.4 METERS EAST OF CENTERLINE OF PAVED COUNTY ROAD LEADING SOUTH, 1.30 METERS EAST OF A WATER VALVE, 0.40 METERS SOUTH OF A WITNESS POST AND 0.20 METERS NORTH OF A CONCRETE PARKING LOT. THE STATION MARK IS A STANDARD BRASS CAP STAMPED "WYATT 1941" SET IN A CONCRETE POST 0.20 METERS BELOW THE GROUND SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
WYATT AZ 1995	7/24/1995	AHTD	UNION	82	070104,070367,070368

  

<b>Zone</b>	<b>Zone Code</b>	
Arkansas South	302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	460,337.2901	
<b>Easting (M)</b>	331,031.2059	
<b>Elevation (M)*</b>	70.015	
<b>Northing (SFT)</b>	1,510,289.9259	
<b>Easting (SFT)</b>	1,086,058.2147	
<b>Elevation (SFT)*</b>	229.709	

  

<b>Convergence Angle</b>	0	24	50.4881902
<b>Scale Factor</b>	1.000021572		
<b>Elevation Adjust. Factor</b>	0.9999890124		
<b>Combined Adjust. Factor</b>	1.0000105842		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>	NAD 83 (1986)		
<b>Latitude</b>	33	12	30.3102828
<b>Longitude</b>	92	44	23.0482284
<b>Ellipsoid Height:</b>	43.272		
<b>Grid Northing (Meters)</b>	460,337.6270		
<b>Grid Easting (Meters)</b>	331,031.4350		

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	270	5.90	19.4
MK # 2	WATER METER	100	6.40	21.0
MK # 3	3" STEEL GATE POST	77	8.00	26.2

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NORPHLET 1952</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WYATT 1941</td> </tr> <tr> <td>Ref Mon # 3</td> <td>700001</td> </tr> </table>	Ref Mon # 1	NORPHLET 1952	Ref Mon # 2	WYATT 1941	Ref Mon # 3	700001	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 140px;"></td> </tr> </table>	Comments	
Ref Mon # 1	NORPHLET 1952								
Ref Mon # 2	WYATT 1941								
Ref Mon # 3	700001								
Comments									

  

<b>Vertical Determined By:</b>	3rd Order - Digital Level
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid09
<b>Latitude</b>	33 12 30.2992920
<b>Longitude</b>	92 44 23.0569800
<b>Ellipsoid Height (M):</b>	43.775
<b>Geoid Height (M):</b>	-26.275

  

Location Description
FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.60 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST ON HWY. 82 FOR 3.540 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH, CONTINUE WEST ON HWY. 82 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT IN FRONT OF TRI-STATE VALVE AND INSTRUMENT COMPANY. THE STATION IS 17.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 12.50 METERS WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "WYATT AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> X 166	<b>Date Monumented</b> 1/1/1944	<b>Monumented By</b> CGS	<b>County</b> MS / CARROLL	<b>Route</b> N/A	<b>Job Number:</b> NA
-------------------------	------------------------------------	-----------------------------	-------------------------------	---------------------	--------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b>		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>	45.339	<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>	148.750	

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>	#Error		
<b>Elevation Adjust. Factor</b>	0.9999928849		
<b>Combined Adjust. Factor</b>	#Type!		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> X 189	<b>Date Monumented</b> 1/1/1956	<b>Monumented By</b> USC&GS	<b>County</b> CLAY	<b>Route</b> 62	<b>Job Number:</b> R00084
-------------------------	------------------------------------	--------------------------------	-----------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	234,295.2481	
<b>Easting (M)</b>	548,636.7610	
<b>Elevation (M)*</b>	93.187	
<b>Northing (SFT)</b>	768,683.6598	
<b>Easting (SFT)</b>	1,799,985.7734	
<b>Elevation (SFT)*</b>	305.731	

  

<b>Convergence Angle</b>	0	57	52.5066975
<b>Scale Factor</b>	1.000045791		
<b>Elevation Adjust. Factor</b>	0.9999853761		
<b>Combined Adjust. Factor</b>	1.0000311665		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	18" PINE TREE	302	17.50	57.4
<b>MK # 2</b>	48" OAK TREE	348	20.30	66.6
<b>MK # 3</b>	48" PIPE CULVERT	135	6.20	20.3

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> <input type="text" value="CORNPORT"/>	Cross Reference Job: R00119 and R00125
<b>Ref Mon # 2</b> <input type="text" value="HOPEWELL"/>	
<b>Ref Mon # 3</b> <input type="text" value="NONE"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> X 303	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NGS	<b>County</b> LITTLE RIVER	<b>Route</b> 71	<b>Job Number:</b> 30108
-------------------------	------------------------------------	-----------------------------	-------------------------------	--------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	513,807.2962		
<b>Easting (M)</b>	202,544.7270		
<b>Elevation (M)*</b>	100.357		
<b>Northing (SFT)</b>	1,685,716.1043		
<b>Easting (SFT)</b>	664,515.4918		
<b>Elevation (SFT)*</b>	329.255		

  

<b>Convergence Angle</b>	-1	11	30.7128791
<b>Scale Factor</b>	0.999938107		
<b>Elevation Adjust. Factor</b>	0.9999842510		
<b>Combined Adjust. Factor</b>	0.9999223589		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED IN ASHDOWN, AT THE FIRST METHODIST CHURCH ON COMMERCE STREET, AND IN THE FRONT LAWN OF THE EDUCATIONAL BUILDING LOCATED ON THE WEST SIDE OF THE CHURCH. OWNERSHIP--FIRST METHODIST CHURCH, ASHDOWN AR, PHONE 501-893-5738 OR 501-893-3525. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, ABOUT 0.4 KM (0.25 MI) NORTH OF THE JUNCTION OF HIGHWAYS 71 AND 32 EAST, GO SOUTH ON HIGHWAY 71 FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF COMMERCE STREET ON THE LEFT. TURN LEFT, EAST ON COMMERCE STREET FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF KELLER STREET. CONTINUE AHEAD, EAST ON COMMERCE STREET FOR ABOUT 30 M (98.4 FT) TO THE EDUCATIONAL BUILDING AND CHURCH AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND SURFACE. IT IS 12.4 M (40.7 FT) SOUTH OF THE CENTER OF COMMERCE STREET, 5.45 M (17.88 FT) WEST OF THE WEST EDGE OF THE ENTRANCE SIDEWALK TO THE EDUCATIONAL BUILDING, 3.15 M (10.33 FT) SOUTH OF THE SOUTH EDGE OF THE SIDEWALK PARALLEL TO COMMERCE</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> X 310	<b>Date Monumented</b> 1/1/1989	<b>Monumented By</b> NOAA	<b>County</b> WASHINGTON	<b>Route</b> 71	<b>Job Number:</b> NA
-------------------------	------------------------------------	------------------------------	-----------------------------	--------------------	--------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1986)	
<b>Northing (M)</b>	175,657.3519	
<b>Easting (M)</b>	203,524.6280	
<b>Elevation (M)*</b>	428.420	
<b>Northing (SFT)</b>	576,302.4954	
<b>Easting (SFT)</b>	667,730.3837	
<b>Elevation (SFT)*</b>	1,405.575	

  

<b>Convergence Angle</b>	-1	15	59.5306332
<b>Scale Factor</b>	0.999950796		
<b>Elevation Adjust. Factor</b>	0.9999327715		
<b>Combined Adjust. Factor</b>	0.9998835708		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
THE STATION IS 3.8 KM. ( 2.35 MI. ) SOUTHERLY ALONG HWY-71 FROM THE JUNCTION OF HWY-180 IN WEST FORK, IN A LARGE EXPOSED AREA OF BEDROCK IN A HIGHWAY CUT, 174.0 METERS ( 570.9 FT. ) SOUTH OF THE CENTER OF A DRIVEWAY LEADING WEST, 37.6 METERS ( 123.4 FT. ) NORTH OF THE SOUTH END OF THE CUT, 18.7 METERS (61.4 FT. ) WEST OF THE CENTERLINE OF THE HIGHWAY, 1.5 METERS ( 4.9 FT. ) ABOVE THE LEVEL OF THE HIGHWAY AND 0.30 METERS NORTH OF A WITNESS POST.***** SPECIFIC SETTING ---- A DRILL HOLE IN BEDROCK			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					NONE
MK # 2	NONE					
MK # 3	NONE					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SPRINGDALE	
Ref Mon # 2 DENNIS	
Ref Mon # 3 NONE	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Y 209	<b>Date Monumented</b> 1/1/1962	<b>Monumented By</b> NGS	<b>County</b> FAULKNER	<b>Route</b> 36	<b>Job Number:</b> 080339
-------------------------	------------------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	91,704.9051				
<b>Easting (M)</b>	379,674.7890				
<b>Elevation (M)*</b>	94.427				
<b>Northing (SFT)</b>	300,868.5095				
<b>Easting (SFT)</b>	1,245,649.7036				
<b>Elevation (SFT)*</b>	309.800				

  

<b>Convergence Angle</b>	0	7	47.3406830
<b>Scale Factor</b>	0.999963211		
<b>Elevation Adjust. Factor</b>	0.9999851815		
<b>Combined Adjust. Factor</b>	0.9999483931		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
LOCATED AT THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, 53.6 FEET EAST OF THE EAST CORNER OF SANSON STORE AND STATION, 49.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 7.5 FEET NORTH OF A GUY POLE, 2.0 FEET WEST OF A METAL WITNESS POST AND SET IN THE TOP OF CONCRETE POST WHICH PROJECTS 0.3 FEET. THE STATION MARK IS A STANDARD 2 BRASS CAP STAMPED "Y 209 1962" .			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	2nd Order NGS Mark
Ref Mon # 2: ARBT	
Ref Mon # 3: ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Y 27	<b>Date Monumented</b>	<b>Monumented By</b> NGS	<b>County</b> Crawford	<b>Route</b> NA	<b>Job Number:</b> R40013
------------------------	------------------------	-----------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	156,698.3130	
<b>Easting (M)</b>	203,543.1450	
<b>Elevation (M)*</b>	331.351	
<b>Northing (SFT)</b>	514,101.0486	
<b>Easting (SFT)</b>	667,791.1349	
<b>Elevation (SFT)*</b>	1,087.107	

  

<b>Convergence Angle</b>	-1	15	49.3984897
<b>Scale Factor</b>	0.999938995		
<b>Elevation Adjust. Factor</b>	0.9999480029		
<b>Combined Adjust. Factor</b>	0.9998870011		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach the station from the junction of highways 282 and 71 east of Chester go north on highway 71 for 5.50 miles to "Schaberg Rd." on the left. Go left on Schaberg Rd. for 2.10 miles to a railroad, cross the tracks and turn left and go 0.15 miles to th</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> Sal1 <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> 170015	The station mark is a first order benchmark. Elevation is 1087.11 feet.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Y 298	<b>Date Monumented</b> 1/1/1985	<b>Monumented By</b> NGS	<b>County</b> SEBASTIAN	<b>Route</b> 71	<b>Job Number:</b> 040792
-------------------------	------------------------------------	-----------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	93,202.9063	0.0010	
<b>Easting (M)</b>	193,155.7324	0.0010	
<b>Elevation (M)*</b>	224.490		
<b>Northing (SFT)</b>	305,783.2018		
<b>Easting (SFT)</b>	633,711.7654		
<b>Elevation (SFT)*</b>	736.514		

  

<b>Convergence Angle</b>	-1	19	15.9613196
<b>Scale Factor</b>	0.999964220		
<b>Elevation Adjust. Factor</b>	0.9999647714		
<b>Combined Adjust. Factor</b>	0.9999289927		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 1985            14.3 KM (8.8 MI) SOUTH FROM GREENWOOD.            5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM            THE SEBASTIAN COUNTY COURTHOUSE IN GREENWOOD,            THENCE 1.6 KM (5.7 MI) SOUTH ALONG            U.S. HIGHWAY 71, AT THE CREST OF A HILL AND NEAR THE            NORTHWEST CORNER OF THE PROPERTY OF MR. HARLAN            CROSS (STONE HOUSE), 12.5 METERS            (41.0 FT) EAST OF THE CENTERLINE OF HIGHWAY 71, 0.52            METERS (1.7 FT) NORTHWEST OF A CORNER FENCE POST, 0.31            METERS (1.0 FT) WEST OF A FENCE LINE, 17.4 METERS (57.0 FT)            NORTH-NORTHWEST OF THE APPROXIMATE CENTER OF THE            PRIVATE ENTRANCE DRIVE, 36.3 METERS (119.0 FT) NORTH-            NORTHWEST OF A POWERLINE POLE, AND 30.5 METERS (100.0            FT) NORTH-NORTHWEST OF THE            APPROXIMATE CENTER OF A DIRT ROAD (EXTENDED) AND            LEADING OVER A CATTLE GUARD. NOTE, DRIVEN TO            GRADUAL REFUSAL AND ANCHORED IN ROCK. THE MARK IS            0.31 METERS NW FROM A WITNESS POST.            THE MARK IS 0.31 M BELOW HIGHWAY 71.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFS <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARRV, OKHV	USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Y 68	<b>Date Monumented</b> 1/1/1934	<b>Monumented By</b> USC&GS	<b>County</b> CLEBURNE	<b>Route</b> 25	<b>Job Number:</b> 012227
------------------------	------------------------------------	--------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	124,972.5233 0.0020
<b>Easting (M)</b>	395,411.0434 0.0020
<b>Elevation (M)*</b>	276.901
<b>Northing (SFT)</b>	410,014.0202
<b>Easting (SFT)</b>	1,297,277.7316
<b>Elevation (SFT)*</b>	908.466

  

<b>Convergence Angle</b>	0 1 45.9075066
<b>Scale Factor</b>	0.999938282
<b>Elevation Adjust. Factor</b>	0.9999565471
<b>Combined Adjust. Factor</b>	0.9998948318

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
DESCRIBED BY COAST AND GEODETIC SURVEY 1962 3.1 MI S FROM HEBER SPRINGS. 3.1 MILES SOUTH ALONG STATE HIGHWAY 25 FROM THE MISSOURI AND NORTH ARKANSAS RAILWAY STATION AT HEBER SPRINGS, 225 FEET NORTHEAST OF THE CENTER OF THE WEST END OF THE JUNCTION WITH STATE HIGHWAY 5, 150 FEET NORTHWEST OF THE CENTER OF THE EAST END OF THE JUNCTION, 52.5 FEET WEST OF THE WEST SIDE OF THE M. DONALDSON SERVICE STATION, 52.3 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 19.9 FEET NORTH OF THE SOUTHEAST FENCE CORNER, AND 1.2 FEET EAST OF THE NORTH-AND-SOUTH FENCE. A STANDARD DISK, STAMPED Y 68 1934 AND SET IN THE TOP OF A CONCRETE POST.			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Y 68 BY +0.0185' WHEN CONSTRAINING Q 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Y22	<b>Date Monumented</b> 1/1/1932	<b>Monumented By</b> USC&GS	<b>County</b> MILLER	<b>Route</b> 196	<b>Job Number:</b> XA0302
-----------------------	------------------------------------	--------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	481,154.7821	
<b>Easting (M)</b>	221,778.5120	
<b>Elevation (M)*</b>	111.800	
<b>Northing (SFT)</b>	1,578,588.6476	
<b>Easting (SFT)</b>	727,618.3348	
<b>Elevation (SFT)*</b>	366.797	

  

<b>Convergence Angle</b>	-1	4	19.5896999
<b>Scale Factor</b>	0.999982573		
<b>Elevation Adjust. Factor</b>	0.9999824552		
<b>Combined Adjust. Factor</b>	0.9999650285		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 4.35 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST ACROSS THE ROAD FROM THE US POST OFFICE IN GENOA, WEST 14.9 METERS OF A PRIVATE ASPH. DRIVE, NORTH 8.9 METERS OF THE CENTERLINE OF A RAILROAD, SOUTH 10.1 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD DISK, STAMPED "366.899 Y 22 1932 " AND SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD STOP SIGN	97	10.80	35.4
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460033
<b>Geodetic Azimuth</b>	84 27 49
<b>Grid Azimuth</b>	85 32 09

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	NGS Monument established in 1932 by CGS. HZ position established in 2004 by AHTD.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 149 offset	<b>Date Monumented</b> 3/8/2011	<b>Monumented By</b> AHTD	<b>County</b> Searcy	<b>Route</b> 27	<b>Job Number:</b> 090304
--------------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (1997)		
<b>Northing (M)</b>	162,072.4459		
<b>Easting (M)</b>	331,570.5690		
<b>Elevation (M)*</b>	488.668		
<b>Northing (SFT)</b>	531,732.6829		
<b>Easting (SFT)</b>	1,087,827.7751		
<b>Elevation (SFT)*</b>	1,603.238		

  

<b>Convergence Angle</b>	0	26	25.8194824
<b>Scale Factor</b>	0.999942477		
<b>Elevation Adjust. Factor</b>	0.9999233179		
<b>Combined Adjust. Factor</b>	0.9998657993		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W H Phillips, P 277	3-wire levels run from Z 149
Ref Mon # 2 ARFY, ARBT	
Ref Mon # 3 ARHR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 290	<b>Date Monumented</b> 1/1/1984	<b>Monumented By</b> NGS	<b>County</b> Faulkner	<b>Route</b> 365	<b>Job Number:</b> 012119
-------------------------	------------------------------------	-----------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	78,343.3441				
<b>Easting (M)</b>	362,050.9740				
<b>Elevation (M)*</b>	89.553				
<b>Northing (SFT)</b>	257,031.4548				
<b>Easting (SFT)</b>	1,187,828.9039				
<b>Elevation (SFT)*</b>	293.808				

  

<b>Convergence Angle</b>	0	14	31.2663368
<b>Scale Factor</b>	0.999980947		
<b>Elevation Adjust. Factor</b>	0.9999859464		
<b>Combined Adjust. Factor</b>	0.9999668937		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW end of a brick house	62	20.40	66.9
<b>MK # 2</b>	Corner of a chain link fence	345	11.90	39.0
<b>MK # 3</b>	Power Pole	335	26.80	87.9

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARLR	This station is a first order NGS bench mark NAVD 88 elevation: 89.553 meters, 293.81 feet.

  

Location Description	
To reach the station from jct. SR-365 & SR-89 (Near exit 135 on I-40) in Mayflower, go North on SR-365 4.9 miles to the station on the Right. 46 feet East of the centerline of SR-365, 4 feet West of a chain link fence, 19 feet South of a gas meter and 4 feet West of a witness post. The station is a stainless steel rod w/o sleeve (10 FT.+) stamped "Z 290 1984"	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 309	<b>Date Monumented</b> 1/2/1989	<b>Monumented By</b> NOAA	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
-------------------------	------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	238,321.0931	
<b>Easting (M)</b>	224,890.2990	
<b>Elevation (M)*</b>	475.120	
<b>Northing (SFT)</b>	781,891.7863	
<b>Easting (SFT)</b>	737,827.5893	
<b>Elevation (SFT)*</b>	1,558.790	

  

<b>Convergence Angle</b>	-1	8	12.6932326
<b>Scale Factor</b>	1.000054211		
<b>Elevation Adjust. Factor</b>	0.9999254437		
<b>Combined Adjust. Factor</b>	0.9999796507		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.3 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, 6.1 METERS NORTH-NORTHEAST OF THE CENTER OF A GRAVEL ROAD AND 0.3 METERS NORTHWEST OF A NGS FIBERGLASS WITNESS POST. THE STATION MARK IS METAL ROD DRIVEN TO REFUSAL AT 0.8 METERS ENCASED IN PVC WITH A LOGO CAP STAMPED "Z 309 1989" SURROUNDED BY CONCRETE. THE SHOT DISTANCE IS 590.723 METERS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	10	16.90	55.4
MK # 2	GUY POLE	103	7.55	24.8
MK # 3	NONE			

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> CONWAY CORS ARP</p> <p><b>Ref Mon # 2</b> SALLISAW 1 CORS ARP</p> <p><b>Ref Mon # 3</b> NEODESHA CORS ARP</p>	<p style="text-align: center;"><b>Comments</b></p> <p>NGS 1st Order Mark</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 309A	<b>Date Monumented</b> 9/28/1999	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 62	<b>Job Number:</b> 090065,090096
--------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> LEVEL - Unkown Quality
<b>Horizontal Datum</b> NAD 83 (1997)		<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b>		
<b>Northing (M)</b> 238,889.8972		<b>Latitude</b> 36 28 15.1499856
<b>Easting (M)</b> 225,049.7010		<b>Longitude</b> 93 57 7.3900872
<b>Elevation (M)*</b> 498.860		<b>Ellipsoid Height (M):</b>
<b>Northing (SFT)</b> 783,757.9377		<b>Geoid Height (M):</b> -28.166
<b>Easting (SFT)</b> 738,350.5607		
<b>Elevation (SFT)*</b> 1,636.677		

  

<b>Convergence Angle</b> -1 8 9.2321641	<b>Scale Factor</b> 1.000055600	<b>Location Description</b>
<b>Elevation Adjust. Factor</b> 0.9999217187	<b>Combined Adjust. Factor</b> 0.9999773144	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127 LOCATED IN GARFIELD, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 3.30 KM (2.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.77 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 62, 14.00 METERS SOUTH-SOUTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 309A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	BRACE POST	9	8.23	27.0	Z 309
MK # 2	TELEPHONE JUNCTION BOX	23	22.65	74.3	194 31 08.74917
MK # 3	NONE				195 39 17.94419

  

<b>Area Reference Monuments</b> <b>(used for Processing)</b> <b>Ref Mon # 1</b> CONWAY CORS ARP <b>Ref Mon # 2</b> SALLISAW 1 CORS ARP <b>Ref Mon # 3</b> NEODESHA CORS ARP	<b>Comments</b> Elevation by 3 Wire from NGS point Z 309
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 31	<b>Date Monumented</b> 1/2/1934	<b>Monumented By</b> USC&GS	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090082
------------------------	------------------------------------	--------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,113.9901	
<b>Easting (M)</b>	179,757.3710	
<b>Elevation (M)*</b>	365.980	
<b>Northing (SFT)</b>	768,088.9825	
<b>Easting (SFT)</b>	589,753.9747	
<b>Elevation (SFT)*</b>	1,200.719	

  

<b>Convergence Angle</b>	-1	25	44.7027118
<b>Scale Factor</b>	1.000041910		
<b>Elevation Adjust. Factor</b>	0.9999425691		
<b>Combined Adjust. Factor</b>	0.9999844767		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 EAST, STATE HIGHWAY 59 AND SECOND AVENUE SOUTHWEST, LOCATED IN GRAVETTE, GO SOUTHWEST ON SECOND AVENUE SOUTHWEST FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DALLAS STREET SOUTHWEST, GO RIGHT, WEST ON DALLAS STREET SOUTHWEST FOR 0.13 KM (0.08 MI) TO THE JUNCTION OF THIRD AVENUE SOUTHWEST AND THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE WEST RAIL, 6.40 METERS NORTH OF THE CENTER OF DALLAS STREET SOUTHWEST, 6.30 METERS WEST OF THE CENTER OF THIRD AVENUE SOUTHWEST AND 1.33 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&amp;GS BENCH MARK DISK STAMPED "Z 31 1934" SET IN THE TOP OF A SQUARE CONCRETE MONUMENT.</p>				

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
<b>MK # 1</b>	MAN HOLE COVER TO A WATER METERS	14	2.35	7.7	
<b>MK # 2</b>	MANHOLE COVER	140	7.95	26.1	
<b>MK # 3</b>	NORTHWEST END OF A CMP	195	2.90	9.5	

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    AHTD HAR 1</p> <p><b>Ref Mon # 2</b>    SALLISAW 1</p> <p><b>Ref Mon # 3</b>    CONWAY CORS ARP</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 31A	<b>Date Monumented</b> 1/10/2000	<b>Monumented By</b> AHTD	<b>County</b> BENTON	<b>Route</b> 59	<b>Job Number:</b> 090082
-------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (1997)	
<b>Northing (M)</b>	234,433.7641	
<b>Easting (M)</b>	179,956.7350	
<b>Elevation (M)*</b>	370.806	
<b>Northing (SFT)</b>	769,138.1077	
<b>Easting (SFT)</b>	590,408.0547	
<b>Elevation (SFT)*</b>	1,216.553	

  

<b>Convergence Angle</b>	-1	25	40.2337565
<b>Scale Factor</b>	1.000042656		
<b>Elevation Adjust. Factor</b>	0.9999418118		
<b>Combined Adjust. Factor</b>	0.9999844654		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FLAG POLE	110	5.81	19.1
<b>MK # 2</b>	CORNER POST OF A CHAIN LINK FENCE	169	12.31	40.4
<b>MK # 3</b>	NONE			

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> AHTD HAR 1 <b>Ref Mon # 2</b> SALLISAW 1 <b>Ref Mon # 3</b> CONWAY CORS ARP	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	LEVEL - Unkown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	
<b>Latitude</b>	36 25 17.9018076
<b>Longitude</b>	94 27 13.5477900
<b>Ellipsoid Height (M):</b>	342.683
<b>Geoid Height (M):</b>	-28.123

Location Description
THE STATION IS LOCATED IN GRAVETTE , AT THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 72 WEST. THE STATION IS 74.35 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72, 43.34 METERS WEST OF THE CENTER OF STATE HIGHWAYS 59 AND 72, 12.123 METERS EAST OF THE EAST RAIL AND 2.13 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 31A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 376.831 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK R 34.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> Z 5	<b>Date Monumented</b> 1/1/1930	<b>Monumented By</b> NGS	<b>County</b> CARROLL	<b>Route</b> NA	<b>Job Number:</b> 090219
-----------------------	------------------------------------	-----------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (1997)				
<b>Northing (M)</b>	222,259.3331	0.0010			
<b>Easting (M)</b>	278,745.3420	0.0010			
<b>Elevation (M)*</b>	337.981				
<b>Northing (SFT)</b>	729,195.8287				
<b>Easting (SFT)</b>	914,517.0095				
<b>Elevation (SFT)*</b>	1,108.859				

  

<b>Convergence Angle</b>	0	47	9.0289429		
<b>Scale Factor</b>	1.000020349				
<b>Elevation Adjust. Factor</b>	0.9999469626				
<b>Combined Adjust. Factor</b>	0.9999673105				

  

<b>SUPERCEDED CONTROL</b>					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

<b>Location Description</b>					
TO REACH FROM U.S. HWY62 AND CARROLL COUNTY ROAD 803 EAST OF GREEN FORREST GO NORTHEAST ON COUNTY ROAD 803 TOWARD THE COMMUNITY OF COIN FOR 2.10 MILES TO CARROLL COUNTY ROAD 807 ON THE RIGHT, TURN RIGHT ONTO ROAD 807 CROSSING A LOW WATER BRIDGE FOR 0.05					

  

<b>Location Reference Marks</b>					
<b>Description</b>			<b>Azimuth</b>	<b>Distance</b>	
				<b>Meters</b>	<b>Feet</b>
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> ZME B	<b>Date Monumented</b> 1/1/1995	<b>Monumented By</b> NGS	<b>County</b> TN / SHELBY	<b>Route</b> N/A	<b>Job Number:</b> N/A
-------------------------	------------------------------------	-----------------------------	------------------------------	---------------------	---------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>
<b>Horizontal Datum</b>	
<b>Northing (M)</b>	#Error
<b>Easting (M)</b>	#Error
<b>Elevation (M)*</b>	76.736
<b>Northing (SFT)</b>	#Type!
<b>Easting (SFT)</b>	#Type!
<b>Elevation (SFT)*</b>	251.758

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>	#Error		
<b>Elevation Adjust. Factor</b>	0.9999879578		
<b>Combined Adjust. Factor</b>	#Type!		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE STATION IS LOCATED ON THE SOUTH SIDE OF MEMPHIS, TN ALONG THE NORTH SIDE OF THE MEMPHIS INTERNATIONAL AIRPORT, ON THE SOUTHERN RIGHT-OF-WAY OF DEMOCRAT ROAD JUST OUTSIDE THE PERIMETER FENCE OF THE FEDERAL AVIATION ADMINISTRATION (FAA) AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC) , AT 3229 DEMOCRAT ROAD. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 240 AND U.S. HIGHWAY 78, GO SOUTH (IN A SOUTHEASTERLY DIRECTION) ON U.S. HWY 78 FOR 1 MI (1.6 KM) TO THE INTERSECTION WITH DEMOCRAT ROAD. TURN RIGHT ON DEMOCRAT ROAD AND PROCEED WEST FOR 0.7 MI (1.1 KM) TO THE STATION ON THE LEFT AT THE TOP OF A RISE BY THE FENCE 0.1 MI (0.2 KM) WEST OF THE INTERSECTION OF DEMOCRAT ROAD AND TCHULAHOMA ROAD. IT IS, 11.3 M (37.1 FT) SOUTH-SOUTHWEST OF LIGHT POLE NUMBER 241292, 10 M (32.8 FT) SOUTH OF THE SOUTH CURB OF DEMOCRAT ROAD, 4.1 M (13.5 FT) EAST OF A TENNESSEE DEPARTMENT OF TRANSPORTATION GPS MONUMENT STAMPED 79-DEMO-01 1994, 2.0 M (6.6 FT) NORTH OF A CHAINLINK FENCE AND A CARSONITE WITNESS POST AND ABOUT 1.7 M (5.6 FT) ABOVE THE SURFACE OF DEMOCRAT ROAD. BY D.L. NOCK. 0.24 KM (0.15 MI) EAST OF THE AIR ROUTE TRAFFIC CONTROL CENTER</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

  

<b>Area Reference Monuments</b> (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080043	<b>Date Monumented</b> 5/17/2021	<b>Monumented By</b> AHTD	<b>County</b> Carroll	<b>Route</b> 62	<b>Job Number:</b> 090650
--------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	229,908.4900	0.0020			
<b>Easting (M)</b>	244,077.8548	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	754,291.4376				
<b>Easting (SFT)</b>	800,778.7620				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	0	40.8671607
<b>Scale Factor</b>	1.000035510		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 20.3FT EAST OF THE CL OF US HWY. 62, 13.8 FT SOUTHWEST OF A FENCE CORNER			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
MK # 1	The Quarter Sign post	327	9.66	31.7	<b>AZ Mark Station</b>
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARFY Ref Mon # 2    ARHR Ref Mon # 3    ARRV, MOCS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080043A	<b>Date Monumented</b> 5/17/2021	<b>Monumented By</b> AHTD	<b>County</b> Carroll	<b>Route</b> 62	<b>Job Number:</b> 090650
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	229,584.9446	0.0020			
<b>Easting (M)</b>	244,147.3843	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	753,229.9391				
<b>Easting (SFT)</b>	801,006.8767				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	0	39.1106693
<b>Scale Factor</b>	1.000034795		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	340	18.71	61.4
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> ARRV, MOCS	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

  

Location Description			
FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.25 MILES TO THE STATION ON THE LEFT. 26.2FT WEST OF THE CL OF US HWY. 62, 27 FT NORTH OF CL OF DRIVEWAY TO A BANK.			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720071	<b>Date Monumented</b> 5/25/2021	<b>Monumented By</b> AHTD	<b>County</b> Washington	<b>Route</b> 412	<b>Job Number:</b> 040894
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	206,594.7578	0.0020	
<b>Easting (M)</b>	203,406.5673	0.0020	
<b>Elevation (M)*</b>	408.253		
<b>Northing (SFT)</b>	677,802.9679		
<b>Easting (SFT)</b>	667,343.0462		
<b>Elevation (SFT)*</b>	1,339.410		

  

<b>Convergence Angle</b>	-1	16	18.2024232
<b>Scale Factor</b>	0.999989138		
<b>Elevation Adjust. Factor</b>	0.9999359359		
<b>Combined Adjust. Factor</b>	0.9999250746		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST BRIDGE CORNER	209	89.70	294.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 CTA1, V 26	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 10 32.9100240
<b>Longitude</b>	94 11 7.6908120
<b>Ellipsoid Height (M):</b>	380.131 0.0060
<b>Geoid Height (M):</b>	-28.098 0.0060

Location Description
<p>THE INTERSECTION OF US HWY. 412 AND US HWY. 71B IN SPRINGDALE, AR. GO WEST ON US HWY. 412 FOR 2.60 MILES TO THE STATION ON THE RIGHT. 6.2' EAST OF THE EAST EDGE OF I-49</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600079A	<b>Date Monumented</b> 5/18/2021	<b>Monumented By</b> AHTD S5101	<b>County</b> Pulaski	<b>Route</b> 107	<b>Job Number:</b> 061738
---------------------------	-------------------------------------	------------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	63,004.2231	0.0040			
<b>Easting (M)</b>	383,992.7987	0.0030			
<b>Elevation (M)*</b>	109.232				
<b>Northing (SFT)</b>	206,706.3553				
<b>Easting (SFT)</b>	1,259,816.3737				
<b>Elevation (SFT)*</b>	358.372				

  

<b>Convergence Angle</b>	0	6	6.8824713
<b>Scale Factor</b>	1.000006496		
<b>Elevation Adjust. Factor</b>	0.9999828582		
<b>Combined Adjust. Factor</b>	0.9999893541		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Northeast end of a 42" RCP	140	21.33	70.0
<b>MK # 2</b>	Southwest end of a 42" RCP	164	25.30	83.0
<b>MK # 3</b>	Chainlink Fence	220	21.64	71.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b>	ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600079	<b>Date Monumented</b> 5/18/2021	<b>Monumented By</b> AHTD S5101	<b>County</b> Pulaski	<b>Route</b> 107	<b>Job Number:</b> 061738
--------------------------	-------------------------------------	------------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	62,730.3674 0.0030
<b>Easting (M)</b>	384,302.5689 0.0030
<b>Elevation (M)*</b>	118.806
<b>Northing (SFT)</b>	205,807.8804
<b>Easting (SFT)</b>	1,260,832.6781
<b>Elevation (SFT)*</b>	389.781

  

<b>Convergence Angle</b>	0 5 59.7716544
<b>Scale Factor</b>	1.000007005
<b>Elevation Adjust. Factor</b>	0.9999813559
<b>Combined Adjust. Factor</b>	0.9999883608

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Chain Link Fence	40	16.46	54.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.</td> </tr> </table>	Comments	ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
Comments			
ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.			

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid18
<b>Latitude</b>	34 53 55.1066820
<b>Longitude</b>	92 10 18.2715132
<b>Ellipsoid Height (M):</b>	91.723 0.0000
<b>Geoid Height (M):</b>	-27.082

Location Description
<p>From the intersection of state highway 107 and state highway 89 West, East of Mayflower, Pulaski County, AR. Travel South along state highway 107 3.5 miles to the station on the Left. The station is 10.36M (34ft) Northeast of the centerline of state highway 107 and 0.1 miles Northwest of the intersection of state highway 107 and Arnold Drive. The station is a standard 3 inch aluminum cap stamped 600079 (2021) set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length and is at the north edge of a gravel parking area.</p>

<b>AZ Mark Station</b>	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620044A	<b>Date Monumented</b> 6/9/2021	<b>Monumented By</b> ARDOT	<b>County</b> Pulaski	<b>Route</b> N/A	<b>Job Number:</b> 061752
---------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	623,158.5389	0.0020	
<b>Easting (M)</b>	363,620.6646	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,044,479.3064		
<b>Easting (SFT)</b>	1,192,978.7971		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	19.8505993
<b>Scale Factor</b>	0.999981432		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
FROM THE INTERSECTION OF I-30 AND STATE HWY. 338 IN LITTLE ROCK, AR. GO WEST ON STATE HWY. 338 FOR 0.1 MILES TO MABELVALE PIKE ON THE RIGHT, GO NORTH ON MABELVALE PIKE FOR 0.275 MILES TO A FARM ROAD ON THE LEFT, GO WEST ON THE FARM ROAD FOR 0.85 MILES TO A Y IN THE ROAD, GO RIGHT AT THE Y FOR 0.1 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO THE STATION IN THE MIDDLE OF THE DRIVE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HIGH VOLTAGE POWERLINE POLE	181	10.06	33.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, P777</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB, P777	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARGS						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARPB, P777						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470028	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	147,684.8605	0.0010
<b>Easting (M)</b>	573,401.6887	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	484,529.4132	
<b>Easting (SFT)</b>	1,881,235.3737	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	6	51.5892313
<b>Scale Factor</b>	0.999936578		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	127	16.30	53.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470028A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	147,517.5124    0.0010
<b>Easting (M)</b>	573,013.0349    0.0010
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	483,980.3719
<b>Easting (SFT)</b>	1,879,960.2653
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	1    6    42.5250000
<b>Scale Factor</b>	0.999936550
<b>Elevation Adjust. Factor</b>	
<b>Combined Adjust. Factor</b>	

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks			
	Description	Azimuth	Distance
			Meters    Feet
MK # 1	FENCE CORNER	36	25.10    82.3
MK # 2	POWERPOLE	54	19.20    63.0
MK # 3			

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    ARWM Ref Mon # 3    ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG &amp; ARWM IN FINAL NETWORK ADJUSTMENT.         </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

  

Location Description	
TO REACH FROM THE JCT. OF HWY 181 AND I-55 NEAR KEISER HEAD NORTH/WEST ON HWY 181 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.8FT EAST OF THE CENTER LINE OF HWY 181, AND 36.0FT E OF THE CENTER OF WEST COUNTY ROAD 828. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470028A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470029	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	149,071.7702	0.0010			
<b>Easting (M)</b>	574,187.6673	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	489,079.6327				
<b>Easting (SFT)</b>	1,883,814.0385				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	7	10.3948352
<b>Scale Factor</b>	0.999936845		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	128	17.40	57.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    ARWM Ref Mon # 3    ARWY, TN49	<b>Comments</b> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
---	---

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.0FT W OF THE I-55 EP, 57.3FT E OF A WEB WIRE FENCE, AND 57FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	470029A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470029A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	148,717.9431	0.0010	
<b>Easting (M)</b>	573,986.3112	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	487,918.7850		
<b>Easting (SFT)</b>	1,883,153.4227		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	7	5.5772342
<b>Scale Factor</b>	0.999936773		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE POST	121	18.10	59.4
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARWM <b>Ref Mon # 3</b> ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG &amp; ARWM IN FINAL NETWORK ADJUSTMENT.         </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

  

Location Description	
TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 3.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0FT W OF THE I-55 EP, AND 59.6FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.	

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    39    30.7262772
<b>Longitude</b>	90    4    42.0016044
<b>Ellipsoid Height (M):</b>	42.227    0.0020
<b>Geoid Height (M):</b>	-27.716    0.0020

  

<b>AZ Mark Station</b>	470029
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470030	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	150,503.2753	0.0010			
<b>Easting (M)</b>	574,996.6986	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	493,776.1624				
<b>Easting (SFT)</b>	1,886,468.3353				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	7	29.7598277
<b>Scale Factor</b>	0.999937170		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	117	18.90	62.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY, TN49</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	ARWM	Ref Mon # 3	ARWY, TN49	<b>Comments</b> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 1	ARPG						
Ref Mon # 2	ARWM						
Ref Mon # 3	ARWY, TN49						

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 40 28.0043760
<b>Longitude</b>	90 4 0.4435536
<b>Ellipsoid Height (M):</b>	43.691 0.0020
<b>Geoid Height (M):</b>	-27.720 0.0020

Location Description
TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.6FT W OF THE I-55 EP, 62.0FT E OF A WEB WIRE FENCE, AND 62.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470030 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

<b>AZ Mark Station</b>	470030A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470030A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	150,154.1361	0.0010			
<b>Easting (M)</b>	574,796.1137	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	492,630.6949				
<b>Easting (SFT)</b>	1,885,810.2497				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	7	24.9606696
<b>Scale Factor</b>	0.999937086		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	110	16.20	53.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    ARWM Ref Mon # 3    ARWY, TN49	<b>Comments</b> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
---	---

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 25.0FT W OF THE I-55 EP, AND 53.2FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470030A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	470030
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470031	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	152,065.9089	0.0010			
<b>Easting (M)</b>	575,827.0080	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	498,902.9028				
<b>Easting (SFT)</b>	1,889,192.4421				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	7	49.6832115
<b>Scale Factor</b>	0.999937581		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	285	1.10	3.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 41 18.1689180
<b>Longitude</b>	90 3 26.2050012
<b>Ellipsoid Height (M):</b>	44.300 0.0020
<b>Geoid Height (M):</b>	-27.726 0.0020

Location Description
<p>TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.9FT E OF THE CENTER LINE OF SANDY BAYOU ROAD, 3.7FT W OF A WEB WIRE FENCE, AND 3.7FT W OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470031A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	151,693.1827    0.0010
<b>Easting (M)</b>	575,631.0619    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	497,680.0502	
<b>Easting (SFT)</b>	1,888,549.5756	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	1	7	44.9790312
<b>Scale Factor</b>	0.999937478		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.2FT E OF THE CENTER LINE OF SANDY BAYOU ROAD AND 4.4FT W OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	291	1.30	4.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	470031
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARWM <b>Ref Mon # 3</b> ARWY, TN49	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470032	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	153,648.2031	0.0010	
<b>Easting (M)</b>	576,684.1403	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	504,094.1463		
<b>Easting (SFT)</b>	1,892,004.5503		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	8	10.2433209
<b>Scale Factor</b>	0.999938057		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	137	18.10	59.4
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470032A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	153,287.1691	0.0010	
<b>Easting (M)</b>	576,431.0553	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	502,909.6540		
<b>Easting (SFT)</b>	1,891,174.2206		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	8	4.2204555
<b>Scale Factor</b>	0.999937943		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	137	6.50	21.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARWM <b>Ref Mon # 3</b> ARWY, TN49	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    41    57.4013580
<b>Longitude</b>	90    3    1.2225888
<b>Ellipsoid Height (M):</b>	42.131    0.0020
<b>Geoid Height (M):</b>	-27.732    0.0020

  

Location Description
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 4.35 MILES TO THE EXIT 48 OFF RAMP. DRIVE SOUTH ON THE EXIT FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36.4FT W OF THE EXIT RAMP EP, AND 21.4FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470032A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470033	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	155,651.9727	0.0010			
<b>Easting (M)</b>	577,743.0670	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	510,668.1804				
<b>Easting (SFT)</b>	1,895,478.7123				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	8	35.6764839
<b>Scale Factor</b>	0.999938747		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	127	13.00	42.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470033A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (1986)				
<b>Northing (M)</b>	155,278.1572	0.0010			
<b>Easting (M)</b>	577,545.5952	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	509,441.7541				
<b>Easting (SFT)</b>	1,894,830.8403				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	8	30.9327049
<b>Scale Factor</b>	0.999938611		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	FENCE POST	114	15.80	51.8
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARPG <b>Ref Mon # 2</b> ARWM <b>Ref Mon # 3</b> ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>           STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG &amp; ARWM IN FINAL NETWORK ADJUSTMENT.         </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

  

Location Description
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 3.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.2FT W OF THE I-55 EP, AND 51.9FT E OF A WEB WIRE FENCE, AND 128FT S OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470033A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	470033
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470034	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	157,164.9968	0.0010			
<b>Easting (M)</b>	578,542.5661	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	515,632.1603				
<b>Easting (SFT)</b>	1,898,101.7356				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	8	54.8863202
<b>Scale Factor</b>	0.999939332		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.7FT W OF THE I-55 EP, AND 78.3FT E OF A WEB WIRE FENCE, AND 78.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					470034A	
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470034A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	156,795.0630	0.0010			
<b>Easting (M)</b>	578,347.1947	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	514,418.4692				
<b>Easting (SFT)</b>	1,897,460.7546				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	8	50.1913760
<b>Scale Factor</b>	0.999939184		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	113	18.90	62.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARPG Ref Mon # 2    ARWM Ref Mon # 3    ARWY, TN49	<b>Comments</b> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
---	---

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.2FT W OF THE I-55 EP, AND 62.0 FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

<b>AZ Mark Station</b>	470034
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470035	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
--------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	159,108.0247	0.0010			
<b>Easting (M)</b>	579,567.7790	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	522,006.9110				
<b>Easting (SFT)</b>	1,901,465.2883				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	9	19.5302407
<b>Scale Factor</b>	0.999940164		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.6FT W OF THE I-55 EP, AND 39.8FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARPG Ref Mon # 2    ARWM Ref Mon # 3    ARWY, TN49	<b>Comments</b> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 620044	<b>Date Monumented</b> 6/9/2021	<b>Monumented By</b> AHTD	<b>County</b> Pulaski	<b>Route</b> N/A	<b>Job Number:</b> 061752
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	622,791.6908	0.0020	
<b>Easting (M)</b>	363,007.4938	0.0020	
<b>Elevation (M)*</b>		0.0017	
<b>Northing (SFT)</b>	2,043,275.7389		
<b>Easting (SFT)</b>	1,190,967.0859		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	33.3000753
<b>Scale Factor</b>	0.999980782		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	171	7.38	24.2
MK # 2	CL TRANSMISSION LINE	7	10.42	34.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, P777</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB, P777	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARGS						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARPB, P777						

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 40 28.8271524
<b>Longitude</b>	92 24 13.1241888
<b>Ellipsoid Height (M):</b>	61.381 0.0030
<b>Geoid Height (M):</b>	-26.503 0.0030

Location Description
THE INTERSECTION OF STATE HWY. 338 AND I-430 IN LITTLE ROCK, GO EAST ON STATE HWY. 338 FOR 0.2 MILES TO SIBLEY HOLE RD. AND TURN LEFT AND GO FOR 0.2 MILES TO THE 2ND TURN IN TO ARDOT CENTRAL SHOPS AND TURN RIGHT AND GO FOR 0.05 MILES AND TURN LEFT AND GO DOWN THE HILL FOR 0.5 MILES TO A GATE ON THE LEFT, TURN LEFT AND GO THROUGH THE GATE TO THE STATION ON THE RIGHT.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> S 320	<b>Date Monumented</b> 4/4/2007	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 061752
-------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	622,686.8646	0.0030			
<b>Easting (M)</b>	362,941.4302	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,042,931.8216				
<b>Easting (SFT)</b>	1,190,750.3422				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	34.7434009
<b>Scale Factor</b>	0.999980597		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 2007          THE MARK IS LOCATED ABOUT 4.0 MILES SOUTHWEST OF          LITTLE ROCK ARKANSAS.          OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL          SHOPS.</p> <p>TO REACH FROM THE INTERSECTION OF US INTERSTATE 430          AND STATE HIGHWAY          5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5          FOR 0.85 MILES TO A          STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT          ON BASELINE ROAD          AND GO 0.9 MILES TO A PAVED ROAD ON THE          LEFT, (ENTRANCE TO AHTD SHOPS)          TURN LEFT AND GO 0.2 MILES TO SECOND DRIVE ON THE          RIGHT, TURN RIGHT          AND GO 0.05 MILES TO THE STATION ON THE LEFT.</p> <p>19.3 METERS WEST OF BEND IN THE CURB FOR PARKING          AREA, 11.7 METERS          WEST OF THE CENTER OF CONCRETE DRAINAGE DITCH, 11.0          METERS EAST OF THE          DK2846/MIDDLE OF A CONCRETE CURB, AND 0.3 METERS</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, P777	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> T 320	<b>Date Monumented</b> 4/4/2007	<b>Monumented By</b> NGS	<b>County</b> PULASKI	<b>Route</b> N/A	<b>Job Number:</b> 061752
-------------------------	------------------------------------	-----------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	622,678.8595	0.0030			
<b>Easting (M)</b>	363,051.5038	0.0030			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,042,905.5582				
<b>Easting (SFT)</b>	1,191,111.4754				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	32.3227324		
<b>Scale Factor</b>	0.999980584				
<b>Elevation Adjust. Factor</b>					
<b>Combined Adjust. Factor</b>					

  

SUPERCEDED CONTROL					
<b>Horizontal Datum</b>					
<b>Latitude</b>					
<b>Longitude</b>					
<b>Ellipsoid Height:</b>					
<b>Grid Northing (Meters)</b>					
<b>Grid Easting (Meters)</b>					

  

Location Description					
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 2007          THE MARK IS LOCATED ABOUT 4.0 MI (6.4 KM) SOUTHWEST OF LITTLE ROCK          ARKANSAS. OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL SHOPS.</p> <p>TO REACH FROM THE INTERSECTION OF US INTERSTATE 430 AND STATE HIGHWAY 5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5 FOR 0.85 MI (1.4 KM)          TO A STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT ON BASELINE ROAD AND GO 0.9 MI (1.4 KM) TO A PAVED ROAD ON THE LEFT, (ENTRANCE TO AHTD SHOPS) TURN LEFT AND GO 0.2 MI (0.3 KM) TO SECOND DRIVE ON THE RIGHT, TURN RIGHT AND GO 0.15 MI (0.2 KM) TO THE STATION ON THE RIGHT.          SET IN THE LOWER LEVEL PARKING LOT SOUTHEAST OF BUILDING 6-60-78 IN A MANHOLE COVER.          DK2847'          DK2847'24.2 METERS WEST OF THE EDGE OF PARKING LOT</p>					

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARGS</p> <p>Ref Mon # 2    ARLR</p> <p>Ref Mon # 3    ARPB, P777</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260038	<b>Date Monumented</b> 6/14/2021	<b>Monumented By</b> AHTD	<b>County</b> Garland	<b>Route</b> 227	<b>Job Number:</b> 061748
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	618,301.0655	0.0030			
<b>Easting (M)</b>	293,071.3221	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,028,542.7457				
<b>Easting (SFT)</b>	961,518.1626				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	39	9.6701097
<b>Scale Factor</b>	0.999972264		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	18	110.50	362.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARGS	
Ref Mon # 2: ARHP	
Ref Mon # 3: ARLR, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 37 45.6971880
<b>Longitude</b>	93 9 58.1583132
<b>Ellipsoid Height (M):</b>	184.239 0.0170
<b>Geoid Height (M):</b>	-27.803 0.0170

Location Description
<p>FROM INTERSECTION OF STATE HWY. 192 AND STATE HWY. 227, GO NORTH ON STATE HWY. 227 FOR 2.5 MILES TO MOUNTAIN PINE RD. ON THE RIGHT, TURN ON MOUNTAIN PINE RD. AND GO FOR 0.5 MILES TO 3 SISTERS SPRINGS RD., CONTINUE NORTHWEST ON 3 SISTERS SPRINGS RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. 41.7' WEST OF A WHITE COMPOSIT FENCE</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260038A	<b>Date Monumented</b> 6/14/2021	<b>Monumented By</b> AHTD	<b>County</b> Garland	<b>Route</b> 227	<b>Job Number:</b> 061748
---------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	618,554.5132	0.0030			
<b>Easting (M)</b>	293,192.0550	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,029,374.2654				
<b>Easting (SFT)</b>	961,914.2671				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	39	7.0807026
<b>Scale Factor</b>	0.999972680		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE/ GY	8	12.70	41.7
MK # 2	FENCE CORNER	214	53.70	176.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARGS	
Ref Mon # 2    ARHP	
Ref Mon # 3    ARLR, ARRV	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34   37   53.9663160
<b>Longitude</b>	93   9   53.5318164
<b>Ellipsoid Height (M):</b>	169.677   0.0170
<b>Geoid Height (M):</b>	-27.807   0.0170

Location Description
<p>FROM INTERSECTION OF STATE HWY. 192 AND STATE HWY. 227, GO NORTH ON STATE HWY. 227 FOR 2.5 MILES TO MOUNTAIN PINE RD. ON THE RIGHT, TURN ON MOUNTAIN PINE RD. AND GO FOR 0.5 MILES TO 3 SISTERS SPRINGS RD., CONTINUE NORTHWEST ON 3 SISTERS SPRINGS RD. FOR 0.85 MILES TO THE STATION ON THE LEFT. 37.1' WEST OF THE CENTERLINE OF 3 SISTERS SPRINGS RD.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300016	<b>Date Monumented</b> 6/24/2021	<b>Monumented By</b> ARDOT	<b>County</b> Hot Springs	<b>Route</b> 283	<b>Job Number:</b> 061741
--------------------------	-------------------------------------	-------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	573,214.4997	0.0020
<b>Easting (M)</b>	307,811.6004	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	1,880,621.2378	
<b>Easting (SFT)</b>	1,009,878.5590	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	36.1034257
<b>Scale Factor</b>	0.999923942		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	262	16.55	54.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARCM	
Ref Mon # 2    ARDQ	
Ref Mon # 3    ARGS, ARLR	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34   13   27.5711628
<b>Longitude</b>	93   0   2.1743316
<b>Ellipsoid Height (M):</b>	63.383   0.0100
<b>Geoid Height (M):</b>	-26.761   0.0100

Location Description
<p>FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE POINT IS 25.7 FT. NORTH OF US HWY. 67. 20.6 FT. SOUTH OF A CHAINLINK FENCE. 75 FT. EAST OF THE CENTERLINE OF PARK STREET.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 300016A	<b>Date Monumented</b> 6/24/2021	<b>Monumented By</b> ARDOT	<b>County</b> Hot Springs	<b>Route</b> 283	<b>Job Number:</b> 061741
---------------------------	-------------------------------------	-------------------------------	------------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	573,380.4517	0.0030	
<b>Easting (M)</b>	308,181.2018	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,881,165.6986		
<b>Easting (SFT)</b>	1,011,091.1596		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	33	28.0563137
<b>Scale Factor</b>	0.999924030		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	224	23.50	77.1
MK # 2	TELEPHONE PEDESTAL	73	22.37	73.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARCM Ref Mon # 2    ARDQ Ref Mon # 3    ARGS, ARLR	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34 13 33.0741300
<b>Longitude</b>	92 59 47.7965472
<b>Ellipsoid Height (M):</b>	55.127 0.0100
<b>Geoid Height (M):</b>	-26.755 0.0100

Location Description
FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE POINT IS 24.2 FT. SOUTH OF THE CENTERLINE OF US HWY. 67. 33.5 FT. WEST OF THE CENTERLINE OF A DRIVEWAY. 47.6 FT. NORTHEAST OF THE EAST END OF A HEADWALL.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280026	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Greene	<b>Route</b> 168	<b>Job Number:</b> 101127
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	184,466.4659	0.0040	
<b>Easting (M)</b>	509,916.6578	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	605,203.7302		
<b>Easting (SFT)</b>	1,672,951.5681		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	42	33.6113748
<b>Scale Factor</b>	0.999960935		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	273	3.99	13.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARJB"/>	
Ref Mon # 2 <input style="width: 150px;" type="text" value="ARPG"/>	
Ref Mon # 3 <input style="width: 150px;" type="text" value="MOAT"/>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 59 23.6762268
<b>Longitude</b>	90 46 51.5909928
<b>Ellipsoid Height (M):</b>	49.722 0.0210
<b>Geoid Height (M):</b>	-27.955 0.0210

Location Description
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.5 miles to the station on the right. The station is 12 ft. East of a witness post, 12.5 ft. West of the center of Greene Co. Rd. 322, 13.1 Ft. East of a power pole. The station mark is a 2 1/2 in. cap stamped "280026 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280026A	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Greene	<b>Route</b> 168	<b>Job Number:</b> 101127
---------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	184,864.1983    0.0030
<b>Easting (M)</b>	509,920.0019    0.0040
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	606,508.6239
<b>Easting (SFT)</b>	1,672,962.5396
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	42	33.8034566
<b>Scale Factor</b>	0.999961379		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	359	36.88	121.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARJB	
Ref Mon # 2    ARPG	
Ref Mon # 3    MOAT	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    59    36.5786088
<b>Longitude</b>	90    46    51.2608980
<b>Ellipsoid Height (M):</b>	49.767    0.0200
<b>Geoid Height (M):</b>	-27.960    0.0200

Location Description
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.3 miles to the station on the right. The station is 5 ft. East of a witness post, 16.8 ft. West of the center of Greene Co. Rd. 322, 121 Ft. South of a power pole. The station mark is a 2 1/2 in. cap stamped "280026A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280027	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Greene	<b>Route</b> 168	<b>Job Number:</b> 101127
--------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	185,592.8062	0.0040	
<b>Easting (M)</b>	511,556.0836	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	608,899.0650		
<b>Easting (SFT)</b>	1,678,330.2509		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	43	12.0237615
<b>Scale Factor</b>	0.999962179		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	14	1.83	6.0
<b>MK # 2</b>	Well Head	14	17.89	58.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MOAT	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   59   59.5548024
<b>Longitude</b>	90   45   45.5788872
<b>Ellipsoid Height (M):</b>	51.879   0.0210
<b>Geoid Height (M):</b>	-27.974   0.0210

Location Description
From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.2 miles to the station on the right. The station is 5.9 ft. South of a witness post, 25.4 ft. East of center of Greene Co. Rd. 308, 6.00 Ft. South of a power pole, and 58.70 Ft. South of a well head. The station mark is a 2 1/2 in. cap stamped "280027 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 280027A	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Greene	<b>Route</b> 168	<b>Job Number:</b> 101127
---------------------------	-------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	186,009.3807	0.0040			
<b>Easting (M)</b>	511,545.4331	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	610,265.7765				
<b>Easting (SFT)</b>	1,678,295.3084				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	43	11.8979435
<b>Scale Factor</b>	0.999962656		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.4 miles to the station on the Left. The station is 4.0 ft. South of a witness post, 22.6 ft. West of center of Greene Co. Rd. 308, 19.80 Ft North of a field entrance. The station mark is a 2 1/2 in. cap stamped "280027A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARJB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    MOAT</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110023	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Clay	<b>Route</b> 328	<b>Job Number:</b> 101121
--------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	235,899.2943	0.0030	
<b>Easting (M)</b>	518,667.9896	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	773,946.2680		
<b>Easting (SFT)</b>	1,701,663.2292		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	12.9639860
<b>Scale Factor</b>	1.000050647		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	85	1.00	3.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	110023A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> ARPG <b>Ref Mon # 3</b> MODP, MODX	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110023A	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Clay	<b>Route</b> 328	<b>Job Number:</b> 101121
---------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	235,479.1151	0.0030	
<b>Easting (M)</b>	518,679.2763	0.0040	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	772,567.7301		
<b>Easting (SFT)</b>	1,701,700.2590		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	46	13.0956989
<b>Scale Factor</b>	1.000049646		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	6	1.00	3.3
<b>MK # 2</b>	Wellhead	82	25.00	82.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MODX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 26 54.8828016
<b>Longitude</b>	90 40 34.4047872
<b>Ellipsoid Height (M):</b>	60.203 0.0160
<b>Geoid Height (M):</b>	-28.791 0.0160

Location Description
<p>From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 5.1 miles to Clay Co. Rd. 176. Go South/Left on Clay Co. Rd. 176 for 0.4 miles to the station on the left. The station is 3.70 ft. South of a witness post. It is 23.70 ft. East of the center of Clay Co. Rd. 176, it is 3.30 ft. South of a power pole, and 82.02 Ft. West of a wellhead. The station mark is a 2 1/2 in. cap stamped "110023A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110024	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Clay	<b>Route</b> 328	<b>Job Number:</b> 101121
--------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	236,521.4126	0.0030	
<b>Easting (M)</b>	520,673.4754	0.0030	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	775,987.3345		
<b>Easting (SFT)</b>	1,708,242.8939		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	47	0.0199503
<b>Scale Factor</b>	1.000052071		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	178	39.00	128.0
<b>MK # 2</b>	Wellhead	145	38.00	124.7
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> MODP, MODX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 27 27.8150616
<b>Longitude</b>	90 39 13.7649492
<b>Ellipsoid Height (M):</b>	62.214 0.0160
<b>Geoid Height (M):</b>	-28.823 0.0160

Location Description
<p>From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.1 miles to the station on the left. The station is 3.0 ft. south of a witness post. It is 31.20 ft. West of the center of Clay Co. Rd 191, and 32.40 ft. southwest of center of field entrance. The station mark is a 2 1/2 in. cap stamped "110024 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 110024A	<b>Date Monumented</b> 9/13/2021	<b>Monumented By</b> ARDOT	<b>County</b> Clay	<b>Route</b> 328	<b>Job Number:</b> 101121
---------------------------	-------------------------------------	-------------------------------	-----------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	236,853.8448	0.0030			
<b>Easting (M)</b>	520,667.7555	0.0040			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	777,077.9891				
<b>Easting (SFT)</b>	1,708,224.1278				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	46	59.9925017
<b>Scale Factor</b>	1.000052870		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wellhead	194	47.50	155.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MODX	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	36 27 38.6007624
<b>Longitude</b>	90 39 13.8121200
<b>Ellipsoid Height (M):</b>	60.030 0.0160
<b>Geoid Height (M):</b>	-28.832 0.0160

Location Description
<p>From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.3 miles to the station on the left. The station is 2.0 ft. West of a witness post. It is 30.50 ft. West of the center of Clay Co. Rd 191, and 156.00 ft. Northeast of a wellhead. The station mark is a 2 1/2 in. cap stamped "110024A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240019	<b>Date Monumented</b> 11/9/2021	<b>Monumented By</b> ARDOT	<b>County</b> Franklin	<b>Route</b> 64	<b>Job Number:</b> 040868
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	129,474.1094	0.0010			
<b>Easting (M)</b>	235,171.9648	0.0010			
<b>Elevation (M)*</b>	117.446				
<b>Northing (SFT)</b>	424,782.9739				
<b>Easting (SFT)</b>	771,560.0212				
<b>Elevation (SFT)*</b>	385.320				

  

<b>Convergence Angle</b>	-1	3	25.5149906
<b>Scale Factor</b>	0.999937378		
<b>Elevation Adjust. Factor</b>	0.9999815693		
<b>Combined Adjust. Factor</b>	0.9999189484		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Firehydrant	131	9.88	32.4
<b>MK # 2</b>	Powerpole	93	28.35	93.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARFY <b>Ref Mon # 3</b> ARR V	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.
--	---

  

Location Description	
To reach from the junction of Hwy 64 and Hwy 23 in Ozark. Go East on Hwy 64 for 0.8 miles to the station on the left. The station is 33.7 ft West of a powerpole, 29.2 ft Northwest of a SS manhole, 92.5 ft North of the centerline of Hwy 64. The station mark is a 2 1/2 in. cap stamped "240019 2021" set on top of a 5/8 in. by 4 ft rebar driven 0.10 in. below the surface.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 29 12.0404796
<b>Longitude</b>	93 48 59.8190292
<b>Ellipsoid Height (M):</b>	88.215 0.0060
<b>Geoid Height (M):</b>	-29.232 0.0060

  

<b>AZ Mark Station</b>	240019A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 240019A	<b>Date Monumented</b> 11/9/2021	<b>Monumented By</b> ARDOT	<b>County</b> Franklin	<b>Route</b> 64	<b>Job Number:</b> 040868
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	129,431.3206	0.0010	
<b>Easting (M)</b>	234,683.4212	0.0010	
<b>Elevation (M)*</b>	115.847		
<b>Northing (SFT)</b>	424,642.5910		
<b>Easting (SFT)</b>	769,957.1911		
<b>Elevation (SFT)*</b>	380.074		

  

<b>Convergence Angle</b>	-1	3	36.7735321
<b>Scale Factor</b>	0.999937392		
<b>Elevation Adjust. Factor</b>	0.9999818202		
<b>Combined Adjust. Factor</b>	0.9999192133		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Lightpole	49	10.76	35.3
<b>MK # 2</b>	Rock Pillar	279	35.48	116.4
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.
<b>Ref Mon # 2</b> ARFY	
<b>Ref Mon # 3</b> ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650050	<b>Date Monumented</b> 11/22/2021	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 22	<b>Job Number:</b> 040888
--------------------------	--------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	116,929.1546	0.0010	
<b>Easting (M)</b>	184,225.0633	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	383,625.0681		
<b>Easting (SFT)</b>	604,411.7285		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	-1	22	54.3799290
<b>Scale Factor</b>	0.999943293		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Firehydrant	256	6.00	19.7
<b>MK # 2</b>	Water Valve	9	14.84	48.7
<b>MK # 3</b>	First National Bank Sign	113	27.28	89.5

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 21 49.8712608
<b>Longitude</b>	94 22 28.5261780
<b>Ellipsoid Height (M):</b>	119.272 0.0030
<b>Geoid Height (M):</b>	-30.148 0.0030

Location Description
<p>To reach from the junction of Hwy. 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 2.4 miles to the station on the right. The station is 36.6 ft. west of Euper Ln, 19.0 Ft. north of edge of Hwy 22, 14.5 ft. Northeast of a powerpole. The station Mark is a 2 1/2 inl cap stamped "650050 2021" set ontop of a 5/8 in by 4ft rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470027	<b>Date Monumented</b> 5/16/2022	<b>Monumented By</b> ARDOT	<b>County</b> Mississippi	<b>Route</b> rth Main	<b>Job Number:</b> C47017
--------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	160,355.8134 0.0020
<b>Easting (M)</b>	587,351.1486 0.0010
<b>Elevation (M)*</b>	74.724
<b>Northing (SFT)</b>	526,100.6978
<b>Easting (SFT)</b>	1,927,001.2267
<b>Elevation (SFT)*</b>	245.156

  

<b>Convergence Angle</b>	1 12 20.3812001
<b>Scale Factor</b>	0.999940675
<b>Elevation Adjust. Factor</b>	0.9999882736
<b>Combined Adjust. Factor</b>	0.9999289493

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.3 miles to the station on the left. The station is 17.3ft. west of the centerline of North Main St, and 73.5ft. South of the center of a gravel driveway. The station mark is a 2 1/2 in. cap stamped "470027 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PowerPole	300	21.90	71.9
MK # 2	Powerpole	6	25.50	83.7
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    ARWY, TN44	<b>Comments</b>  ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017 *****USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470027A	<b>Date Monumented</b> 5/16/2022	<b>Monumented By</b> ARDOT	<b>County</b> Mississippi	<b>Route</b> rth Main	<b>Job Number:</b> C47017
---------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	159,908.3521 0.0020
<b>Easting (M)</b>	587,383.9148 0.0010
<b>Elevation (M)*</b>	74.745
<b>Northing (SFT)</b>	524,632.6518
<b>Easting (SFT)</b>	1,927,108.7271
<b>Elevation (SFT)*</b>	245.227

  

<b>Convergence Angle</b>	1 12 20.9219404
<b>Scale Factor</b>	0.999940461
<b>Elevation Adjust. Factor</b>	0.9999882702
<b>Combined Adjust. Factor</b>	0.9999287319

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.05 miles to the station on the right. The station is 83.2ft. East of the centerline of Main St, 66.8ft. NW of a flag pole, and 111.0ft west of a light pole. The station mark is a 2 1/2 in. cap stamped "470027A 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Flag Pole	338	20.30	66.6
<b>MK # 2</b>	Light Pole	270	33.80	110.9
<b>MK # 3</b>				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB	ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017 *****USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.
<b>Ref Mon # 2</b> ARPG	
<b>Ref Mon # 3</b> ARWY, TN44	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040108-1	<b>Date Monumented</b> 5/9/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Benton	<b>Route</b> I - 49	<b>Job Number:</b> 090646
----------------------------	------------------------------------	--------------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	225,889.7240	0.0018
<b>Easting (M)</b>	204,329.9895	0.0018
<b>Elevation (M)*</b>	395.816	0.0048
<b>Northing (SFT)</b>	741,106.5362	
<b>Easting (SFT)</b>	670,372.6406	
<b>Elevation (SFT)*</b>	1,298.605	

  

<b>Convergence Angle</b>	-1	16	6.6516394
<b>Scale Factor</b>	1.000025111		
<b>Elevation Adjust. Factor</b>	0.9999378875		
<b>Combined Adjust. Factor</b>	0.9999629969		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN OVER INTERSTATE	102	15.85	52.0
MK # 2	METAL LIGHT POLE WITH CONC. BASE	332	13.11	43.0
MK # 3	SANITARY SEWER MANHOLE	202	21.65	71.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	IN FRONT (EAST) OF SOUTHERN MOST BUILDING OF LAKESIDE CENTER OFFICE COMPLEX, 4 FT (1.22M) EAST OF THE R/W FENCE AND 10 FT (3.05M) EAST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040108A-1	<b>Date Monumented</b> 5/9/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Benton	<b>Route</b> I - 49	<b>Job Number:</b> 090646
-----------------------------	------------------------------------	--------------------------------------	-------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	226,580.0314	0.0016	
<b>Easting (M)</b>	204,520.0914	0.0017	
<b>Elevation (M)*</b>	403.278	0.0046	
<b>Northing (SFT)</b>	743,371.3197		
<b>Easting (SFT)</b>	670,996.3332		
<b>Elevation (SFT)*</b>	1,323.089		

  

<b>Convergence Angle</b>	-1	16	2.5726987
<b>Scale Factor</b>	1.000026577		
<b>Elevation Adjust. Factor</b>	0.9999367165		
<b>Combined Adjust. Factor</b>	0.9999632918		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SOUTHEAST BRIDGE CORNER	13	3.35	11.0
<b>MK # 2</b>	SOUTH END OF BRIDGE ABUTTMENT	302	1.22	4.0
<b>MK # 3</b>	NORTHEAST CORNER OD DROP INLET	234	7.31	24.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	JUST OFF THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE AT EXIT 86, LOG MILE 540-5 85.8 ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040109-1	<b>Date Monumented</b> 5/10/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Benton	<b>Route</b> 71B	<b>Job Number:</b> 090646
----------------------------	-------------------------------------	--------------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> 3rd Order - Digital Levels
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> NAVD 88
<b>Northing (M)</b> 225,677.0562	<b>0.0017</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 201,566.7660	<b>0.0017</b>	<b>Latitude</b> 36 20 50.5065840
<b>Elevation (M)*</b> 396.215	<b>0.0024</b>	<b>Longitude</b> 94 12 38.4382800
<b>Northing (SFT)</b> 740,408.8085		<b>Ellipsoid Height (M):</b> 368.033 0.0065
<b>Easting (SFT)</b> 661,306.9648		<b>Geoid Height (M):</b> -28.151
<b>Elevation (SFT)*</b> 1,299.915		

  

<b>Convergence Angle</b> -1 17 11.0082957	<b>Scale Factor</b> 1.000024535	<b>Location Description</b> THE INTERSECTION OF US HIGHWAY 71B AND STATE HWY 102 IN BENTONVILLE, BENTON COUNTY ARKANSAS, THAVEL SOUTH ALONG STATE HWY 71B 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 42 FEET (12.80) EAST OF THE CL OF STATE HIGHWAY 71B . THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040109, 2022 SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.
<b>Elevation Adjust. Factor</b> 0.9999378248	<b>Combined Adjust. Factor</b> 0.9999623583	

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>		<b>Latitude</b>	
<b>Longitude</b>		<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>		<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	0	35.05	115.0
<b>MK # 2</b>	COMBINATION POLE	176	25.60	84.0
<b>MK # 3</b>	LIGHT POLE	79	25.91	85.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	40 FT (12.19M) SOUTH OF THE CENTERLINE OF THE NORTH ENTRANCE TO KIMBERLY PLAZA (STRIP MALL), 5 FT (1.52M) EAST OF THE BACK OF SIDEWALK, 11 FT (3.35M) WEST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040109A-1	<b>Date Monumented</b> 5/10/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Benton	<b>Route</b> 71B	<b>Job Number:</b> 090646
-----------------------------	-------------------------------------	--------------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	226,400.6340	0.0016	
<b>Easting (M)</b>	201,579.0898	0.0017	
<b>Elevation (M)*</b>	394.557	0.0059	
<b>Northing (SFT)</b>	742,782.7467		
<b>Easting (SFT)</b>	661,347.3971		
<b>Elevation (SFT)*</b>	1,294.474		

  

<b>Convergence Angle</b>	-1	17	11.0998610
<b>Scale Factor</b>	1.000026058		
<b>Elevation Adjust. Factor</b>	0.9999380851		
<b>Combined Adjust. Factor</b>	0.9999641414		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	215	8.53	28.0
MK # 2	POWER POLE	140	21.34	70.0
MK # 3	GAS METER	64	18.29	60.0

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.</td> </tr> </table>	Comments	17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
Comments			
17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.			

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
180013 RESET	5/28/2022	ARDOT	CRITTENDEN	70	110738

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas North	301	3rd Order - Digital Levels
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	91,647.5152	0.0010
<b>Easting (M)</b>	553,096.9572	0.0010
<b>Elevation (M)*</b>	63.959	
<b>Northing (SFT)</b>	300,680.2228	
<b>Easting (SFT)</b>	1,814,618.9337	
<b>Elevation (SFT)*</b>	209.839	

  

<b>Convergence Angle</b>	0	58	39.8235465
<b>Scale Factor</b>	0.999964785		
<b>Elevation Adjust. Factor</b>	0.9999899629		
<b>Combined Adjust. Factor</b>	0.9999547482		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH FROM THE JCT. OF HWY 70 AND 50 NEAR LEHI, HEAD EAST ON HWY 70 FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.3FT N OF THE CL OF HWY 70. THE STATION MARK IS A 2 1/2IN CAP STAMPED "180013RESET 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	NW BRIDGE CORNER	302	4.05	13.3
<b>MK # 2</b>	W END OF GUARDRAIL	84	19.40	63.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWM, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180029	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> I-40	<b>Job Number:</b> 110738
--------------------------	-------------------------------------	-------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	90,582.6112	0.0020			
<b>Easting (M)</b>	543,297.4013	0.0020			
<b>Elevation (M)*</b>	63.238				
<b>Northing (SFT)</b>	297,186.4502				
<b>Easting (SFT)</b>	1,782,468.2241				
<b>Elevation (SFT)*</b>	207.474				

  

<b>Convergence Angle</b>	0	54	54.1724353
<b>Scale Factor</b>	0.999965869		
<b>Elevation Adjust. Factor</b>	0.9999900760		
<b>Combined Adjust. Factor</b>	0.9999559453		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST WITH TURNBUCKLE	5	9.10	29.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 8 22.2288684
<b>Longitude</b>	90 25 38.9287308
<b>Ellipsoid Height (M):</b>	36.044 0.0050
<b>Geoid Height (M):</b>	-27.173 0.0050

  

Location Description
TO REACH THE STATION FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETTE, HEAD NORTH ON HWY 79 FOR 0.35 MILES TO THE I-40 FRONTAGE RD. HEAD WEST/LEFT ON THE FRONTAGE RD. FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.3FT N OF THE CL OF I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180029 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180029A	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> I-40	<b>Job Number:</b> 110738
---------------------------	-------------------------------------	-------------------------------	-----------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	90,341.5387 0.0020
<b>Easting (M)</b>	542,892.2468 0.0020
<b>Elevation (M)*</b>	63.079
<b>Northing (SFT)</b>	296,395.5316
<b>Easting (SFT)</b>	1,781,138.9797
<b>Elevation (SFT)*</b>	206.950

  

<b>Convergence Angle</b>	0 54 44.7719282
<b>Scale Factor</b>	0.999966154
<b>Elevation Adjust. Factor</b>	0.9999901010
<b>Combined Adjust. Factor</b>	0.9999562554

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 8 14.6166828
<b>Longitude</b>	90 25 55.0836048
<b>Ellipsoid Height (M):</b>	35.897 0.0050
<b>Geoid Height (M):</b>	-27.169 0.0050

  

Location Description
<p>TO REACH THE STATION FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETTE, HEAD NORTH ON HWY 79 FOR 0.35 MILES TO THE I-40 FRONTAGE RD. HEAD WEST/LEFT ON THE FRONTAGE RD. FOR 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 14.7FT N OF THE CL OF I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180029A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST FOR BARRIER	313	8.80	28.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWM, ARWY	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180030	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> 79	<b>Job Number:</b> 110738
--------------------------	-------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	92,143.4428    0.0010
<b>Easting (M)</b>	545,751.6523    0.0020
<b>Elevation (M)*</b>	62.576

  

<b>Northing (SFT)</b>	302,307.2786	
<b>Easting (SFT)</b>	1,790,520.2126	
<b>Elevation (SFT)*</b>	205.301	

  

<b>Convergence Angle</b>	0	55	51.1647052
<b>Scale Factor</b>	0.999964054		
<b>Elevation Adjust. Factor</b>	0.9999901799		
<b>Combined Adjust. Factor</b>	0.9999542343		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.9FT E OF THE EP OF HWY 79, 64.0FT N OF EP OF I-40 W BOUND OFF RAMP, AND 91.5FT S OF THE EP OF HWY 218 THE STATION MARK IS A 2 1/2" CAP STAMPED "180030 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

  

**Location Reference Marks**

Description	Azimuth	Distance	
		Meters    Feet	
MK # 1			
MK # 2			
MK # 3			

  

<b>AZ Mark Station</b>	180030A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b>    ARJB</p> <p><b>Ref Mon # 2</b>    AROC</p> <p><b>Ref Mon # 3</b>    ARWM, ARWY</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 &amp; Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180030A	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> 79	<b>Job Number:</b> 110738
---------------------------	-------------------------------------	-------------------------------	-----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	92,601.4954	0.0010			
<b>Easting (M)</b>	545,740.7745	0.0020			
<b>Elevation (M)*</b>	62.986				
<b>Northing (SFT)</b>	303,810.0728				
<b>Easting (SFT)</b>	1,790,484.5243				
<b>Elevation (SFT)*</b>	206.647				

  

<b>Convergence Angle</b>	0	55	51.0857320
<b>Scale Factor</b>	0.999963518		
<b>Elevation Adjust. Factor</b>	0.9999901155		
<b>Combined Adjust. Factor</b>	0.9999536339		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79/BINGS STORE RD FOR 0.6 MILES TO THE STAION ON THE RIGHT. THE STATION IS 13.3FT E OF THE CL OF HWY 79. THE STATION MARK IS A 2 1/2" CAP STAMPED "180030A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARJB <b>Ref Mon # 2</b> AROC <b>Ref Mon # 3</b> ARWM, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180031	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> NEAL R	<b>Job Number:</b> 110738
--------------------------	-------------------------------------	-------------------------------	-----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	91,986.6130	0.0010
<b>Easting (M)</b>	549,095.3027	0.0010
<b>Elevation (M)*</b>	63.955	
<b>Northing (SFT)</b>	301,792.7462	
<b>Easting (SFT)</b>	1,801,490.1723	
<b>Elevation (SFT)*</b>	209.825	

  

<b>Convergence Angle</b>	0	57	7.9689764
<b>Scale Factor</b>	0.999964303		
<b>Elevation Adjust. Factor</b>	0.9999899635		
<b>Combined Adjust. Factor</b>	0.9999542669		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWM, ARWY</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARJB	Ref Mon # 2	AROC	Ref Mon # 3	ARWM, ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 &amp; Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARJB										
Ref Mon # 2	AROC										
Ref Mon # 3	ARWM, ARWY										
Comments											
ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738											

  

Location Description	
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 46FT E OF THE CL OF COUNTY RD. 381, AND 23.3FT S OF THE CL OF THE I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031 2022" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

  

<b>AZ Mark Station</b>	180031A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180031A	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> NEAL R	<b>Job Number:</b> 110738
---------------------------	-------------------------------------	-------------------------------	-----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	92,440.3177	0.0010	
<b>Easting (M)</b>	549,075.4195	0.0010	
<b>Elevation (M)*</b>	63.170		
<b>Northing (SFT)</b>	303,281.2757		
<b>Easting (SFT)</b>	1,801,424.9388		
<b>Elevation (SFT)*</b>	207.249		

  

<b>Convergence Angle</b>	0	57	7.6852433
<b>Scale Factor</b>	0.999963770		
<b>Elevation Adjust. Factor</b>	0.9999900867		
<b>Combined Adjust. Factor</b>	0.9999538571		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	25	6.70	22.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 9 19.4487408
<b>Longitude</b>	90 21 49.4855136
<b>Ellipsoid Height (M):</b>	35.929 0.0040
<b>Geoid Height (M):</b>	-27.222 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.9FT W OF THE CL OF COUNTY RD. 381, AND 40.8FT N OF THE CENTER OF A GRAVEL FIELD ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180032	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> 147	<b>Job Number:</b> 110738
--------------------------	-------------------------------------	-------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	91,798.3618	0.0010			
<b>Easting (M)</b>	555,555.7898	0.0010			
<b>Elevation (M)*</b>	64.722				
<b>Northing (SFT)</b>	301,175.1253				
<b>Easting (SFT)</b>	1,822,685.9537				
<b>Elevation (SFT)*</b>	212.343				

  

<b>Convergence Angle</b>	0	59	36.4029953
<b>Scale Factor</b>	0.999964656		
<b>Elevation Adjust. Factor</b>	0.9999898431		
<b>Combined Adjust. Factor</b>	0.9999544994		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 8 55.0499784
<b>Longitude</b>	90 17 33.9124344
<b>Ellipsoid Height (M):</b>	37.463 0.0040
<b>Geoid Height (M):</b>	-27.256 0.0040

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND HWY 147 IN LEHI, HEAD NORTH ON HWY 147 FOR 0.1 MILES TO THE STAION ON THE LEFT. THE STATION IS IN THE MIDDLE OF A GRAVEL ISLAND. THE STATION IS 29FT E OF THE BACK OF THE CURB OF SOUTHBOUND 147, AND 35.1FT W OF THE BACK OF THE CURB OF NORTHBOUND 147. THE STATION MARK IS A 2 1/2" CAP STAMPED "180032 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180032A	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> 147	<b>Job Number:</b> 110738
---------------------------	-------------------------------------	-------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	92,283.1137	0.0010			
<b>Easting (M)</b>	555,565.4056	0.0020			
<b>Elevation (M)*</b>	63.699				
<b>Northing (SFT)</b>	302,765.5155				
<b>Easting (SFT)</b>	1,822,717.5015				
<b>Elevation (SFT)*</b>	208.987				

  

<b>Convergence Angle</b>	0	59	36.8172744
<b>Scale Factor</b>	0.999964083		
<b>Elevation Adjust. Factor</b>	0.9999900036		
<b>Combined Adjust. Factor</b>	0.9999540870		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	179	3.00	9.8
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180033	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> LEGE BL	<b>Job Number:</b> 110738
--------------------------	-------------------------------------	-------------------------------	-----------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	91,655.9245 0.0010
<b>Easting (M)</b>	561,791.4088 0.0010
<b>Elevation (M)*</b>	64.449

  

<b>Northing (SFT)</b>	300,707.8123	
<b>Easting (SFT)</b>	1,843,143.9804	
<b>Elevation (SFT)*</b>	211.448	

  

<b>Convergence Angle</b>	1	1	59.6773765
<b>Scale Factor</b>	0.999964957		
<b>Elevation Adjust. Factor</b>	0.9999898859		
<b>Combined Adjust. Factor</b>	0.9999548433		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>				
TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO THE JCT OF HWY 70 AND S AIRPORT RD. THE STATION WILL BE ON THE LEFT. THE STATION IS 34.0FT E OF THE EP OF S COLLEGE BLVD, AND 81.6FT S OF THE EP OF HWY 70. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STORM SEWER MANHOLE	111	9.50	31.2
MK # 2	ANTENNA POLE WITH BM Y356	189	9.80	32.2
MK # 3	BRICK FENCE CORNER	304	12.00	39.4

  

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2	AROC	
Ref Mon # 3	ARWM, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650050A	<b>Date Monumented</b> 11/22/2021	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 22	<b>Job Number:</b> 040888
---------------------------	--------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	117,272.7211	0.0010			
<b>Easting (M)</b>	183,878.7457	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	384,752.2525				
<b>Easting (SFT)</b>	603,275.5182				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	23	2.5519672
<b>Scale Factor</b>	0.999943093		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Powerpole	321	10.15	33.3
<b>MK # 2</b>	Chuck Fawcett Sign	253	6.10	20.0
<b>MK # 3</b>	Northwest corner of building	185	24.60	80.7

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650051	<b>Date Monumented</b> 11/22/2021	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 22	<b>Job Number:</b> 040888
--------------------------	--------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	114,970.3720	0.0010			
<b>Easting (M)</b>	186,856.4494	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	377,198.6288				
<b>Easting (SFT)</b>	613,044.8677				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	-1	21	52.6648913
<b>Scale Factor</b>	0.999944477		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Powerpole	345	14.63	48.0
<b>MK # 2</b>	Powerpole	235	8.41	27.6
<b>MK # 3</b>	Lightpole	112	17.31	56.8

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<b>Comments</b> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 20 48.3738504
<b>Longitude</b>	94 20 42.4682124
<b>Ellipsoid Height (M):</b>	99.441 0.0020
<b>Geoid Height (M):</b>	-30.179 0.0020

Location Description
To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go South/Left on S 79th St for 0.2 miles the sthe station on the left. The station is 38.8 ft. East of center of S 79th St, 16.0 ft. North of Mercy Clinic sign, and 9.9 ft. West of the back of curb. The station mark is a 2 1/2 in. cap stamped "650051 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

<b>AZ Mark Station</b>	650051A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 650051A	<b>Date Monumented</b> 11/22/2021	<b>Monumented By</b> ARDOT	<b>County</b> Sebastian	<b>Route</b> 22	<b>Job Number:</b> 040888
---------------------------	--------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	115,495.3582    0.0010
<b>Easting (M)</b>	186,871.9304    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	378,921.0210	
<b>Easting (SFT)</b>	613,095.6583	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	-1	21	52.5963461
<b>Scale Factor</b>	0.999944140		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Firehydrant	15	4.27	14.0
<b>MK # 2</b>	Lightpole	200	25.51	83.7
<b>MK # 3</b>	Lightpole	99	30.79	101.0

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <b>Comments</b> </div>
---	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    21    5.4166464
<b>Longitude</b>	94    20    42.3504168
<b>Ellipsoid Height (M):</b>	102.550    0.0020
<b>Geoid Height (M):</b>	-30.164    0.0020

Location Description
To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go North/Right on S 79th St for 0.1 miles the sthe station on the Right. The station is 25.0 ft. East of center of S 79th St, 14.0 ft. Southwest of a firehydrant, and 47.7 ft. Northwest of a storm sewer manhole. The station mark is a 2 1/2 in. cap stamped "650051A 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020037	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	466,357.9173    0.0010
<b>Easting (M)</b>	425,149.3644    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,530,042.6003	
<b>Easting (SFT)</b>	1,394,844.2064	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	9	3.8554910
<b>Scale Factor</b>	1.000008032		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the intersection of hwy 82 and hwy 160 go West for 8.5 miles to county road 68. Go northwest for 0.3 miles to county road 128. go north on county road 128 for 0.2 miles to the station on the left. The station mark is a 2 1/2in cap stamped "020037 2021" set on top of a 4ft rebar driven 0.10 in below the surface.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	354	3.41	11.2
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	020037A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020037A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	465,924.6083	0.0010			
<b>Easting (M)</b>	425,141.9360	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,528,620.9857				
<b>Easting (SFT)</b>	1,394,819.8350				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	9	3.6701537
<b>Scale Factor</b>	1.000008942		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>To Reach from the intersection of hwy 82 and hwy 160 go west for 8.5 miles to county road 68. Go northwest for 0.3 miles to county road 128. Point is in the northwest corner. 34.5ft north of the CL of county road 68 and 36.5 ft west of the CL county road 128. The station mark is a 2 1/2in cap stamped "020037A 2021" set on top of a 4ft rebar driven 0.10 in. below the surface.</p>				

  

Location Reference Marks							
Description		Azimuth	Distance		AZ Mark Station	Geodetic Azimuth	Grid Azimuth
			Meters	Feet			
MK # 1	Power Pole	127	31.30	102.7	020037		
MK # 2							
MK # 3							

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020038	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	467,928.9406	0.0010	
<b>Easting (M)</b>	428,770.0763	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,535,196.8660		
<b>Easting (SFT)</b>	1,406,723.1587		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	10	22.2555014
<b>Scale Factor</b>	1.000004792		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks							
Description		Azimuth	Distance		AZ Mark Station	Geodetic Azimuth	Grid Azimuth
			Meters	Feet			
MK # 1	Power Pole	354	2.44	8.0	020038A		
MK # 2							
MK # 3							

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020038A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	468,357.3672	0.0010	
<b>Easting (M)</b>	428,770.4237	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,536,602.4622		
<b>Easting (SFT)</b>	1,406,724.2984		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	10	22.2909694
<b>Scale Factor</b>	1.000003913		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	333	2.23	7.3
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	020038
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020039	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	467,408.1160	0.0010			
<b>Easting (M)</b>	431,201.4441	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,533,488.1272				
<b>Easting (SFT)</b>	1,414,700.0712				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	11	14.8052860
<b>Scale Factor</b>	1.000005882		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	8	25.30	83.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020039A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	466,881.2204	0.0010	
<b>Easting (M)</b>	431,187.9508	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,531,759.4706		
<b>Easting (SFT)</b>	1,414,655.8019		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	11	14.4762027
<b>Scale Factor</b>	1.000006976		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	128	22.50	73.8
<b>MK # 2</b>	18" CMP	144	2.01	6.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 16 9.1397496
<b>Longitude</b>	91 39 54.9125856
<b>Ellipsoid Height (M):</b>	27.169
<b>Geoid Height (M):</b>	-25.806

Location Description
<p>To reach from the junction of hwy 82 and hwy 160. Go West on hwy 82 for 4.95 miles to county road 65. Go south on hwy 65 for 0.6 miles to the station on the right. The station is 25.2 ft west of the CL county road 65, 18.7 ft. north of field entrance, 62.2 ft. west of the center of county road 199. the station mark is a 2 1/2 in. Cap stamped "020039A 2021" set on top of a 4 ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020040	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	468,384.9480	0.0010	
<b>Easting (M)</b>	432,693.1830	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,536,692.9502		
<b>Easting (SFT)</b>	1,419,594.2179		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	11	47.1398617
<b>Scale Factor</b>	1.000003882		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 16 57.7849728
<b>Longitude</b>	91 38 56.5523880
<b>Ellipsoid Height (M):</b>	29.937
<b>Geoid Height (M):</b>	-25.813

Location Description
<p>To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to count road 64. Go south on county road 64 for 0.4 miles to the station on the left. The station is 27.0 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040 2021" set on top of a 4 ft rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020040A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020771
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	468,816.6833    0.0010
<b>Easting (M)</b>	432,686.3387    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,538,109.4018	
<b>Easting (SFT)</b>	1,419,571.7629	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	11	47.0238325
<b>Scale Factor</b>	1.000003001		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to county road 64. Go south on county road 64 for 0.15 miles to the station on the left. The station is 26.5 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040A 2021" set on top of a 4ft. rebar driven 0.10 in. below the surface.

  

**Location Reference Marks**

Description	Azimuth	Distance		
		Meters	Feet	
<b>MK # 1</b> 24" Oak Tree	184	24.66	80.9	<b>AZ Mark Station</b> 020040
<b>MK # 2</b>				<b>Geodetic Azimuth</b>
<b>MK # 3</b>				<b>Grid Azimuth</b>

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p><b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/></p> <p><b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020041	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020772
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	467,334.6313	0.0010			
<b>Easting (M)</b>	438,374.9375	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,533,247.0362				
<b>Easting (SFT)</b>	1,438,235.1074				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	49.9411959
<b>Scale Factor</b>	1.000006088		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 16 23.0060712
<b>Longitude</b>	91 35 17.1431016
<b>Ellipsoid Height (M):</b>	12.324
<b>Geoid Height (M):</b>	-25.862

Location Description
<p>To reach from the junction of hwy 82 and hwy 160 go south on hwy 160 for 0.85 miles to the station on the left. The station is 27.3 ft. east of the CL hwy 160. The station mark is a 2 1/2in. Cap stamped "020041 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.</p>

<b>AZ Mark Station</b>	020041A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020041A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020772
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	467,725.7278	0.0010	
<b>Easting (M)</b>	438,381.9159	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,534,530.1586		
<b>Easting (SFT)</b>	1,438,258.0024		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	50.1261585
<b>Scale Factor</b>	1.000005280		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 16 35.6995632
<b>Longitude</b>	91 35 16.8126288
<b>Ellipsoid Height (M):</b>	12.847
<b>Geoid Height (M):</b>	-25.862

Location Description
<p>To reach from the junction of hwy 82 and hwy 160 go south on hwy 160 for 0.6 miles to the station on the left. The station is 23.7 ft. east of the CL hwy 160. The station mark is a 2 1/2in. Cap stamped "020041A 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.</p>

<b>AZ Mark Station</b>	020041
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020042	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020772
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	471,081.7335 0.0010
<b>Easting (M)</b>	441,594.5016 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,545,540.6540	
<b>Easting (SFT)</b>	1,448,797.9607	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	14	59.9239657
<b>Scale Factor</b>	0.999998522		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the junction of hwy 82 and hwy 160. Go east on hwy 82 for 2.3 miles to county road 151 "Lake Grampus". Go north on 151 for 0.3 miles to the station on the left. The station is 21.4 ft. west of the cl county road 151 and 16.6 ft south of a field road. The station mark is a 2 1/2in. cap stamped "020042 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence Corner	313	2.65	8.7
MK # 2				
MK # 3				

<b>AZ Mark Station</b>	020042A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

**Area Reference Monuments  
(used for Processing)**

Ref Mon # 1

Ref Mon # 2

Ref Mon # 3

**Comments**

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 020042A	<b>Date Monumented</b> 12/14/2021	<b>Monumented By</b> ARDOT	<b>County</b> Ashley	<b>Route</b> 82	<b>Job Number:</b> 020772
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	470,790.3092	0.0010	
<b>Easting (M)</b>	441,587.6695	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,544,584.5394		
<b>Easting (SFT)</b>	1,448,775.5457		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	14	59.7486484
<b>Scale Factor</b>	0.999999100		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North Gate Post	252	17.95	58.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 18 14.7349476
<b>Longitude</b>	91 33 12.4180452
<b>Ellipsoid Height (M):</b>	12.286
<b>Geoid Height (M):</b>	-25.893

Location Description
<p>To reach from the junction of hwy 82 and hwy 160. Go east on hwy 82 for 2.3 miles to county road 151 "Lake Grampus". Go north on 151 for 0.1 miles to the station on the left. The station is 28.0 ft. west of the cl county road 151 and 67.3 ft north of a field entrance. The station mark is a 2 1/2in. cap stamped "020042A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470026	<b>Date Monumented</b> 5/3/2022	<b>Monumented By</b> ARDOT	<b>County</b> Mississippi	<b>Route</b> 55	<b>Job Number:</b> A00031
--------------------------	------------------------------------	-------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	135,748.2204	0.0010	
<b>Easting (M)</b>	566,643.3670	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	445,367.2864		
<b>Easting (SFT)</b>	1,859,062.4466		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	1	4	10.1208568
<b>Scale Factor</b>	0.999936194		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence T-Post	281	1.31	4.3
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARJB	STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM, ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 32 34.5015348
<b>Longitude</b>	90 9 43.5253032
<b>Ellipsoid Height (M):</b>	44.474 0.0050
<b>Geoid Height (M):</b>	-27.697 0.0050

Location Description
<p>To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.5 miles to the station on the right. The station is 15.1 ft. east of the centeline of S co. rd. 251. 32.7 ft. SE of the center of a gravel field entrance, and 4.3 ft. W of a metal fence T-post. the station mark is a 2 1/2 in. cap stamped "470026 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470026A	<b>Date Monumented</b> 5/3/2022	<b>Monumented By</b> ARDOT	<b>County</b> Mississippi	<b>Route</b> 55	<b>Job Number:</b> A00031
---------------------------	------------------------------------	-------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	135,373.3993	0.0010			
<b>Easting (M)</b>	566,445.4716	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	444,137.5609				
<b>Easting (SFT)</b>	1,858,413.1847				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	4	5.3883249
<b>Scale Factor</b>	0.999936238		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Metal Fence Cor	166	1.10	3.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARJB	STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY
Ref Mon # 2: ARPG	
Ref Mon # 3: ARWM, ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 32 22.4608776
<b>Longitude</b>	90 9 51.6582108
<b>Ellipsoid Height (M):</b>	43.214 0.0050
<b>Geoid Height (M):</b>	-27.695 0.0050

Location Description
<p>To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.2 miles to the station on the left. The station is 59.0 ft. nw of the centerline of S county Rd 251, 59.8 ft. W of the cenerline of the I-55 Southbound off ramp, and 3.6 ft. SE of a metal fene corner. The station mark is a 2 1/2 in. cap stamped "470026A 2022" set ontop of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560016	<b>Date Monumented</b> 5/9/2022	<b>Monumented By</b> ARDOT	<b>County</b> Poinsett	<b>Route</b> N/A	<b>Job Number:</b> BR5614
--------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	142,894.9659	0.0020	
<b>Easting (M)</b>	512,552.0412	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	468,814.5673		
<b>Easting (SFT)</b>	1,681,597.8218		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	43	22.6450222
<b>Scale Factor</b>	0.999936079		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Field Road		7.70	25.3
MK # 2	Field Road		6.60	21.7
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	
Ref Mon # 2    ARJB	
Ref Mon # 3    ARWM, ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   36   53.8310268
<b>Longitude</b>	90   45   27.3261348
<b>Ellipsoid Height (M):</b>	46.756   0.0070
<b>Geoid Height (M):</b>	-27.644   0.0070

Location Description
<p>To Reach from the Jct. of Hwy 1 and Raybourn Rd. near Greenfield, go West on Raybourn Rd. for 1.8 miles to Evans Ln. Go South/Left on Evans Ln. for 1.4 miles to a gravel field road. Go West/Right for 0.4 miles to the station on the right. The station is 25.4ft South of a gravel field road, and 21.8 ft West of another gravel field road. The station mark is a 2 1/2in cap stamped "560016 2022" set on top of a 5/8in by 4ft. rebar driven 0.10 in. below the surface</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 560016A	<b>Date Monumented</b> 5/9/2022	<b>Monumented By</b> ARDOT	<b>County</b> Poinsett	<b>Route</b> N/A	<b>Job Number:</b> BR5614
---------------------------	------------------------------------	-------------------------------	---------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	142,912.0381	0.0020	
<b>Easting (M)</b>	512,930.2571	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	468,870.5783		
<b>Easting (SFT)</b>	1,682,838.6852		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	43	31.3949232
<b>Scale Factor</b>	0.999936080		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	center of concrete bridge	324	6.85	22.5
MK # 2	metal culvert	295	7.00	23.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARBT Ref Mon # 2    ARJB Ref Mon # 3    ARWM, ARWY	<b>Comments</b>  <div style="border: 1px solid black; height: 100px;"></div>
---	--

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35    36    54.2298420
<b>Longitude</b>	90    45    12.2893344
<b>Ellipsoid Height (M):</b>	46.409    0.0070
<b>Geoid Height (M):</b>	-27.646    0.0070

Location Description
The Jct of Hwy 1 and Raybourn Rd. near Greenfield, go west on Raybourn Rd for 1.8 miles to Evans Lane. Go South/Left on Evans for 1.4 miles to a gravel field road. Go right/west for 0.2 miles to the station on the right. The station is 23.0 ft North of a gravel field road, and 23.1ft W of a 24in metal culvert. The station mark is a 2 1/2in. cap stamped "560016A 2022" set ontop of a 5/8in. by 4ft. rebar driven 0.10in below the surface.

<b>AZ Mark Station</b>	560016
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200016	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> 070527
--------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	535,552.2834	0.0020	
<b>Easting (M)</b>	361,758.7076	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,757,057.7831		
<b>Easting (SFT)</b>	1,186,870.0265		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	13	53.0091104
<b>Scale Factor</b>	0.999921712		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARGS <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARLR, ARMO	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 200016A	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> DALLAS	<b>Route</b> 167	<b>Job Number:</b> 070527
---------------------------	------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	535,973.4416	0.0020			
<b>Easting (M)</b>	361,678.7583	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,758,439.5330				
<b>Easting (SFT)</b>	1,186,607.7262				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	13	54.7877555
<b>Scale Factor</b>	0.999921546		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.4 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARGS</p> <p>Ref Mon # 2    ARHP</p> <p>Ref Mon # 3    ARLR, ARMO</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130024	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> CLEVELAND	<b>Route</b> 35	<b>Job Number:</b> 070526
--------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	545,231.6800	0.0010			
<b>Easting (M)</b>	375,026.9730	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,788,814.2701				
<b>Easting (SFT)</b>	1,230,400.9939				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	9	4.5451564
<b>Scale Factor</b>	0.999918990		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS <b>Ref Mon # 2</b> ARHP <b>Ref Mon # 3</b> ARLR, ARMO	

  

**Vertical Determined By:**    GPS - Unknown Quality

**Elevation Datum:**    NAVD 88

**Geoid Datum:**    Geoid 18

**Latitude**    33    58    32.8807488

**Longitude**    92    16    12.9394632

**Ellipsoid Height (M):**    45.721    0.0040

**Geoid Height (M):**    -25.905    0.0040

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 35 AND HWY 79 IN RISON, HEAD WEST ON HWY 35 FOR 3.6 MILES TO CANOE LANDING ROAD. HEAD SOUTH/LEFT ON CANOE LANDING ROAD FOR 0.85 MILES TO A LOGGING ROAD ON THE RIGHT. THE POINT WILL BE APPROXIMATELY 250FT. NORTHWEST OF THE PULL IN OF THE LOGGING ROAD. THE STATION IS 13.8FT WEST OF THE CENTER OF THE LOGGING ROAD/TRAIL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "130024 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 130024A	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> CLEVELAND	<b>Route</b> 35	<b>Job Number:</b> 070526
---------------------------	------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	545,265.0154	0.0010	
<b>Easting (M)</b>	375,381.8588	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,788,923.6380		
<b>Easting (SFT)</b>	1,231,565.3151		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	8	56.8086794
<b>Scale Factor</b>	0.999918985		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	RR TIE FENCE POST	177	14.10	46.3
<b>MK # 2</b>	RR TIE FENCE POST	250	19.40	63.6
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARGS	
<b>Ref Mon # 2</b> ARHP	
<b>Ref Mon # 3</b> ARLR, ARMO	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33   58   33.9929364
<b>Longitude</b>	92   15   59.1166908
<b>Ellipsoid Height (M):</b>	40.707   0.0040
<b>Geoid Height (M):</b>	-25.899   0.0040

Location Description
<p>TO REACH FROM THE JCT. OF HWY 35 AND HWY 79 IN RISON, HEAD WEST ON HWY 35 FOR 3.6 MILES TO CANOE LANDING ROAD. HEAD SOUTH/LEFT ON CANOE LANDING ROAD FOR 0.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS 28.2FT NORTH OF THE CENTER LINE OF CANOE LANDING ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "130024A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080044	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 412	<b>Job Number:</b> 090639
--------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	209,025.9607	0.0010	
<b>Easting (M)</b>	276,634.0490	0.0010	
<b>Elevation (M)*</b>	497.884	0.0048	
<b>Northing (SFT)</b>	685,779.3394		
<b>Easting (SFT)</b>	907,590.2091		
<b>Elevation (SFT)*</b>	1,633.475		

  

<b>Convergence Angle</b>	0	47	53.9801282
<b>Scale Factor</b>	0.999995405		
<b>Elevation Adjust. Factor</b>	0.9999218718		
<b>Combined Adjust. Factor</b>	0.9999172772		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLE	160	10.06	33.0
<b>MK # 2</b>	UTILITY MARKER (TRI COUNTY TELEPHONE CO.)	170	8.53	28.0
<b>MK # 3</b>	PIPE FENCE CORNER	180	11.58	38.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARFY	11 FT. (3.35 M) WEST OF THE TOP OF DITCH BANK. 1 FT. (0.30M) EAST OF A 5 STRAND BARBED WIRE FENCE. Digital levels ran from NGS 1335 by S5101 MAY 2023
<b>Ref Mon # 2</b> ARHR	
<b>Ref Mon # 3</b> AROZ	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> GEOID18	<b>Latitude</b> 36 12 34.6901292
<b>Longitude</b> 93 22 18.9662052	<b>Ellipsoid Height (M):</b> 469.749 0.0050
<b>Geoid Height (M):</b> -28.071 0.0050	

  

Location Description
FROM THE INTERSECTION OF U. S. HIGHWAY 62 AND U.S. HIGHWAY 412 IN ALPENA, CARROLL COUNTY, ARKANSAS. TRAVEL SOUTHWEST ALONG U. S. HIGHWAY 412 FOR 8.3 MILES TO CARROLL COUNTY ROAD 905 ON THE RIGHT, TURN RIGHT AND CONTINUE ALONG CARROLL COUNTY ROAD 905 FOR 0.6 MILES TO THE TOP OF THE HILL AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 IN. ARDOT GPS MONUMENT STAMPED 080044, 2023 SET FLUSH WITH THE GROUND, 0.5 FT. EAST OF A ARDOT GPS SIGN, ON TOP OF A 5/8 IN. REBAR 4 FT IN LENGTH.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 080044A	<b>Date Monumented</b> 5/2/2023	<b>Monumented By</b> ARDOT	<b>County</b> CARROLL	<b>Route</b> 412	<b>Job Number:</b> 090639
---------------------------	------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	209,482.1161	0.0010	
<b>Easting (M)</b>	276,662.6255	0.0010	
<b>Elevation (M)*</b>	501.946	0.0050	
<b>Northing (SFT)</b>	687,275.9092		
<b>Easting (SFT)</b>	907,683.9638		
<b>Elevation (SFT)*</b>	1,646.800		

  

<b>Convergence Angle</b>	0	47	53.4625171
<b>Scale Factor</b>	0.999996191		
<b>Elevation Adjust. Factor</b>	0.9999212346		
<b>Combined Adjust. Factor</b>	0.9999174259		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE GATE POST	190	4.57	15.0
<b>MK # 2</b>	CONCRETE GATE POST	145	26.76	87.8
<b>MK # 3</b>	UTILITY MARKER (TRI COUNTY TELEPHONE COMPANY)	350	2.44	8.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARHR <b>Ref Mon # 3</b> AROZ	1.5 FT. EAST OF THE NORTHERN MOST CONCRETE GATE POST. Digital levels ran from NGS 1335 by S5101 MAY 2023

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470035A	<b>Date Monumented</b> 12/20/2022	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> I-55	<b>Job Number:</b> 101076
---------------------------	--------------------------------------	-------------------------------	------------------------------	----------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	158,715.5938	0.0010			
<b>Easting (M)</b>	579,361.3551	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	520,719.4107				
<b>Easting (SFT)</b>	1,900,788.0459				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	9	14.5668327
<b>Scale Factor</b>	0.999939989		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.8FT W OF THE I-55 EP, AND 60.4 FT E OF A WEB WIRE FENCE, AND 116.0FT SE OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					<b>AZ Mark Station</b> 470035
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050412	<b>Date Monumented</b> 3/25/2020	<b>Monumented By</b> BRYAN GANN	<b>County</b> BOONE	<b>Route</b> U.S. 65	<b>Job Number:</b> 90578
--------------------------	-------------------------------------	------------------------------------	------------------------	-------------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>				
<b>Horizontal Datum</b>					
<b>Northing (M)</b>	#Error				
<b>Easting (M)</b>	#Error				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	#Type!				
<b>Easting (SFT)</b>	#Type!				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SUFACE, 62 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 4 FEET SOUTHWEST OF WITNESS POST.</p>				

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	120			050412A	
MK # 2	FENCE	28				
MK # 3	SIGN POST	86				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050412A	<b>Date Monumented</b> 3/25/2020	<b>Monumented By</b> BRYAN GANN	<b>County</b> BOONE	<b>Route</b> U.S. 65	<b>Job Number:</b> 90578
---------------------------	-------------------------------------	------------------------------------	------------------------	-------------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>  <b>Elevation Datum:</b>  <b>Geoid Datum:</b>  <b>Latitude</b> <b>Longitude</b> <b>Ellipsoid Height (M):</b> <b>Geoid Height (M):</b>			
<b>Horizontal Datum</b>					
<b>Northing (M)</b>	#Error				
<b>Easting (M)</b>	#Error				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td style="padding: 5px;"> FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ON U.S. HIGHWAY 65, 2.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 40 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 5 FEET NORTHEAST OF WITNESS POST. </td> </tr> </table>		Location Description	FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ON U.S. HIGHWAY 65, 2.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 40 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 5 FEET NORTHEAST OF WITNESS POST.
Location Description					
FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ON U.S. HIGHWAY 65, 2.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 40 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 5 FEET NORTHEAST OF WITNESS POST.					
<b>Easting (SFT)</b>	#Type!				
<b>Elevation (SFT)*</b>					
<b>Convergence Angle</b> ### ### #Error					
<b>Scale Factor</b> #Error					
<b>Elevation Adjust. Factor</b>					
<b>Combined Adjust. Factor</b> #Type!					

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
<b>MK # 1</b>	ROW MARKER		153		
<b>MK # 2</b>	HEAD WALL		300		
<b>MK # 3</b>	SIGN POST		287		

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050413	<b>Date Monumented</b> 3/25/2020	<b>Monumented By</b> BRYAN GANN	<b>County</b> BOONE	<b>Route</b> U.S. 65	<b>Job Number:</b> 90578
--------------------------	-------------------------------------	------------------------------------	------------------------	-------------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 43 AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, .3 OF A MILE TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050413, DATED 2020. SET ON TOP OF A 48" REBAR DRIVEN .3 FEET BELOW THE GROUND SURFACE, 70 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND SOUTHWEST OF WITNESS POST.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	297		
MK # 2	SIGN POST	123		
MK # 3	LIGHT POLE	72		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1</p> <p>Ref Mon # 2</p> <p>Ref Mon # 3</p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 100px;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 050413A	<b>Date Monumented</b> 3/25/2020	<b>Monumented By</b> BRYAN GANN	<b>County</b> BOONE	<b>Route</b> U.S. 65	<b>Job Number:</b> 90578
---------------------------	-------------------------------------	------------------------------------	------------------------	-------------------------	-----------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>				
<b>Horizontal Datum</b>					
<b>Northing (M)</b>	#Error				
<b>Easting (M)</b>	#Error				
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	#Type!				
<b>Easting (SFT)</b>	#Type!				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 43 AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, .6 OF A MILE TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050413A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 60 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 95 FEET NORTHWEST OF THE CENTER OF FORWARD DRIVE AND NORTHEAST OF WITNESS POST.</p>				

  

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SIGNAL POLE		85		
MK # 2	C/L FORWARD RD		126		
MK # 3	FIRE HYDRANT		313		

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 040135	<b>Date Monumented</b> 7/8/2021	<b>Monumented By</b> ARDOT	<b>County</b> Benton	<b>Route</b> 59	<b>Job Number:</b> 090651
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b>	<b>Vertical Determined By:</b>
<b>Horizontal Datum</b>		<b>Elevation Datum:</b>
<b>Northing (M)</b>	#Error	<b>Geoid Datum:</b>
<b>Easting (M)</b>	#Error	<b>Latitude</b>
<b>Elevation (M)*</b>		<b>Longitude</b>
<b>Northing (SFT)</b>	#Type!	<b>Ellipsoid Height (M):</b>
<b>Easting (SFT)</b>	#Type!	<b>Geoid Height (M):</b>
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	###	###	#Error
<b>Scale Factor</b>			#Error
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			#Type!

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE W LIGHT	5	22.60	74.1
<b>MK # 2</b>	GAS METER	156	23.50	77.1
<b>MK # 3</b>	WATER METER	41	13.10	43.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610015A	<b>Date Monumented</b> 1/10/2023	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Randolph	<b>Route</b> 67	<b>Job Number:</b> S101140
---------------------------	-------------------------------------	--------------------------------------	---------------------------	--------------------	-------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	216,842.2083 0.0010
<b>Easting (M)</b>	494,879.1848 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	711,423.1451	
<b>Easting (SFT)</b>	1,623,616.1255	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	36	52.3530569
<b>Scale Factor</b>	1.000010250		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

From the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.6 miles to the station on the Right. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015A, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 20 feet (6.1M) South of the centerline of US Hwy 67 and 5 feet (1.52M) Southeast of the Southeast Bridge corner.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast Bridge Corner	282	1.52	5.0
MK # 2	Power Pole	147	24.08	79.0
MK # 3	Telephone Handhole	1787	23.77	78.0

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 610015	<b>Date Monumented</b> 1/10/2023	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Randolph	<b>Route</b> 67	<b>Job Number:</b> S101140
--------------------------	-------------------------------------	--------------------------------------	---------------------------	--------------------	-------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	216,710.8352	0.0010			
<b>Easting (M)</b>	494,415.0597	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	710,992.1318				
<b>Easting (SFT)</b>	1,622,093.4084				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	36	41.4989132
<b>Scale Factor</b>	1.000010007		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Power Pole	314	10.67	35.0
<b>MK # 2</b>	Double Down Guy	221	7.62	25.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	36 16 55.5476124
<b>Longitude</b>	90 56 56.7000996
<b>Ellipsoid Height (M):</b>	70.953 0.0020
<b>Geoid Height (M):</b>	-28.340 0.0000

Location Description
To reach from the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.3 miles to the station on the left. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 63 feet (19.2M) Northwest of the centerline of US Hwy 67 and 3 feet (.91M) Northwest of the Northwest edge of the old concrete Hwy.

<b>AZ Mark Station</b>	610015A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160046	<b>Date Monumented</b> 1/18/2023	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 101073
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	167,502.9571				
<b>Easting (M)</b>	520,332.9763				
<b>Elevation (M)*</b>	88.488				
<b>Northing (SFT)</b>	549,549.2851				
<b>Easting (SFT)</b>	1,707,125.7731				
<b>Elevation (SFT)*</b>	290.316				

  

<b>Convergence Angle</b>	0	46	30.2467337
<b>Scale Factor</b>	0.999945544		
<b>Elevation Adjust. Factor</b>	0.9999861135		
<b>Combined Adjust. Factor</b>	0.9999316582		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.3FT WEST OF THE BACK OF THE ASPHALT CURB OF HWY 49, AND 26.5FT SW OF THE END OF THE GUARDRAIL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    ARWM	<b>Comments</b>  ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160046A	<b>Date Monumented</b> 1/18/2023	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> 49	<b>Job Number:</b> 101073
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	167,907.5862    0.0010
<b>Easting (M)</b>	520,355.8712    0.0010
<b>Elevation (M)*</b>	82.643

  

<b>Northing (SFT)</b>	550,876.8057	
<b>Easting (SFT)</b>	1,707,200.8874	
<b>Elevation (SFT)*</b>	271.139	

  

<b>Convergence Angle</b>	0	46	30.9044936
<b>Scale Factor</b>	0.999945824		
<b>Elevation Adjust. Factor</b>	0.9999870307		
<b>Combined Adjust. Factor</b>	0.9999328554		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.1FT E OF THE EP OF HWY 49, 15.0FT N OF A RW MARKER, AND 67.0FT SE OF CENTER OF A HEADWALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RW MARKER	4	4.60	15.1
MK # 2	POWERPOLE	33	17.90	58.7
MK # 3				

  

<b>AZ Mark Station</b>	160046
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARJB</p> <p>Ref Mon # 2    ARPG</p> <p>Ref Mon # 3    ARWM</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.</p>
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160047	<b>Date Monumented</b> 1/18/2023	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> REPORT F	<b>Job Number:</b> 101073
--------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	168,069.6942    0.0010
<b>Easting (M)</b>	521,928.3550    0.0010
<b>Elevation (M)*</b>	99.303

  

<b>Northing (SFT)</b>	551,408.6551	
<b>Easting (SFT)</b>	1,712,359.9447	
<b>Elevation (SFT)*</b>	325.798	

  

<b>Convergence Angle</b>	0	47	7.4154451
<b>Scale Factor</b>	0.999945923		
<b>Elevation Adjust. Factor</b>	0.9999844163		
<b>Combined Adjust. Factor</b>	0.9999303401		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 1.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.0FT WEST OF THE EP OF AIRPORT RD, 105FT N OF THE SOUTH ENTRANCE OF NETTLETON CEMETARY, AND 99FT S OF THE NORTH ENTRANCE OF NETTLETON CEMETARY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AT&T UTILITY BOX	306	16.50	54.1
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	160047A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.
Ref Mon # 2    ARPG	
Ref Mon # 3    ARWM	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160047A	<b>Date Monumented</b> 1/18/2023	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> REPORT F	<b>Job Number:</b> 101073
---------------------------	-------------------------------------	-------------------------------	----------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	167,676.6884    0.0010
<b>Easting (M)</b>	521,924.9795    0.0010
<b>Elevation (M)*</b>	85.482

  

<b>Northing (SFT)</b>	550,119.2685	
<b>Easting (SFT)</b>	1,712,348.8702	
<b>Elevation (SFT)*</b>	280.453	

  

<b>Convergence Angle</b>	0	47	7.2122710
<b>Scale Factor</b>	0.999945649		
<b>Elevation Adjust. Factor</b>	0.9999865852		
<b>Combined Adjust. Factor</b>	0.9999322350		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 0.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6FT W OF THE EP OF AIRPORT ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

  

**Location Reference Marks**

Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CULVERT	3	20.80	68.2
<b>MK # 2</b>	UTILITY MARKER	7	19.90	65.3
<b>MK # 3</b>	COMBINATION POLE	278	16.60	54.5

  

<b>AZ Mark Station</b>	160047
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARJB</p> <p><b>Ref Mon # 2</b>    ARPG</p> <p><b>Ref Mon # 3</b>    ARWM</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380001A	<b>Date Monumented</b> 12/15/2021	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 101061
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	208,143.2258 0.0010
<b>Easting (M)</b>	472,392.3745 0.0010
<b>Elevation (M)*</b>	88.590 0.0000
<b>Northing (SFT)</b>	682,883.2333
<b>Easting (SFT)</b>	1,549,840.6487
<b>Elevation (SFT)*</b>	290.650

  

<b>Convergence Angle</b>	0 28 6.3837221
<b>Scale Factor</b>	0.999994858
<b>Elevation Adjust. Factor</b>	0.9999860975
<b>Combined Adjust. Factor</b>	0.9999809555

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b>	3rd Order - 3 Wire Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	36 12 24.3341964
<b>Longitude</b>	91 11 41.9311752
<b>Ellipsoid Height (M):</b>	60.312 0.0060
<b>Geoid Height (M):</b>	-28.278 0.0060

  

Location Description
<p>FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 1.0 MILES TO THE STATION ON THE RIGHT 53 FEET (16.1M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 54 FEET (16.4M) SOUTHEAST OF THE CENTERLINE OF A GRAVEL FIELD ENTRANCE. THE STATION IS A STANDARD 2 INCH ARDOT GPS MONUMET STAMPED 380001A / 2021, SET ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	38	2.40	7.9
<b>MK # 2</b>	E. END 18" COURRAGATED METAL PIPE	292	12.80	42.0
<b>MK # 3</b>	FIBER OPTIC UTILITY MARKER	146	19.50	64.0

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	RESET 380001A Levels were ran from H 316   

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380023	<b>Date Monumented</b> 12/15/2021	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 101061
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	209,570.2460	0.0010	
<b>Easting (M)</b>	469,966.0732	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	687,565.0488		
<b>Easting (SFT)</b>	1,541,880.3585		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	27	10.1280262
<b>Scale Factor</b>	0.999997355		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 2.35 MILES TO THE STATION ON THE RIGHT 45 FEET (13.7M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 33 FEET (10.0M) WEST OF OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTHWEST. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMET STAMPED 380023 / 2021, ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE AND AMONG OUTCROPPING ROCKS.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	113	30.20	99.1
MK # 2	W. END OF 18" COURRAGATED METAL PIPE	147	8.80	28.9
MK # 3	RR CROSS TIE GATE POST	93	28.30	92.8

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;"><b>Comments</b></p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 380023A	<b>Date Monumented</b> 12/15/2021	<b>Monumented By</b> AHTD	<b>County</b> LAWRENCE	<b>Route</b> 63	<b>Job Number:</b> 101061
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	209,362.5841	0.0010			
<b>Easting (M)</b>	470,209.7541	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	686,883.7447				
<b>Easting (SFT)</b>	1,542,679.8349				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	27	15.7669018
<b>Scale Factor</b>	0.999996990		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	TELEPHONE POLE WITH BOX	293	30.20	99.1
<b>MK # 2</b>	FIBER OPTIC CABLE UTILITY MARKER	252	6.10	20.0
<b>MK # 3</b>	TELEPHONE POLE	163	9.40	30.8

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	OWNER DAVE CLEMENTS REQUEST US (ARDOT SURVEYS) TO STAY OFF OF HIS PROPERTY.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090032	<b>Date Monumented</b> 2/14/2023	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> 020736
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	462,551.1227	0.0020	
<b>Easting (M)</b>	470,534.2366	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,517,553.1417		
<b>Easting (SFT)</b>	1,543,744.4079		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	25	24.6714726
<b>Scale Factor</b>	1.000016682		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	338	1.30	4.3
MK # 2	GUY WIRE	190	2.70	8.9
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARHB <b>Ref Mon # 2</b> ARLV <b>Ref Mon # 3</b> ARMO, ARMG	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG   

  

**\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33 13 41.7839304
<b>Longitude</b>	91 14 35.8677096
<b>Ellipsoid Height (M):</b>	9.630 0.0050
<b>Geoid Height (M):</b>	-26.034 0.0050

Location Description
TO REACH FROM THE JCT. OF HWY 278 AND HWY 65 IN LAKE VILLAGE, HEAD SOUTH ON HWY 65 FOR 3.4 MILES TO T-BOY JAMES RD. HEAD EAST/LEFT ON T-BOY JAMES RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 35.5FT EAST OF THE CENTER OF T-BOY JAMES ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090032 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

<b>AZ Mark Station</b>	090032A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090032A	<b>Date Monumented</b> 2/14/2023	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> 020736
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	462,555.1895	0.0020			
<b>Easting (M)</b>	470,140.5765	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,517,566.4842				
<b>Easting (SFT)</b>	1,542,452.8747				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	25	16.1630503
<b>Scale Factor</b>	1.000016667		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	90	22.90	75.1
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARHB	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG
Ref Mon # 2: ARLV	
Ref Mon # 3: ARMG, ARMO	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090033	<b>Date Monumented</b> 2/14/2023	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> 020737
--------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	448,327.7344	0.0020			
<b>Easting (M)</b>	470,556.6531	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,470,888.5753				
<b>Easting (SFT)</b>	1,543,817.9527				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	25	22.8860737
<b>Scale Factor</b>	1.000050350		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARHB	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG.
Ref Mon # 2    ARLV	
Ref Mon # 3    ARMG, ARMO	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 090033A	<b>Date Monumented</b> 2/14/2023	<b>Monumented By</b> ARDOT	<b>County</b> CHICOT	<b>Route</b> 65	<b>Job Number:</b> 020737
---------------------------	-------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	448,474.2632    0.0020
<b>Easting (M)</b>	470,161.4567    0.0020
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	1,471,369.3118	
<b>Easting (SFT)</b>	1,542,521.3792	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	25	14.3797307
<b>Scale Factor</b>	1.000049971		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWERPOLE	314	47.20	154.9
<b>MK # 2</b>	FOC UTILITY MARKER	168	5.20	17.1
<b>MK # 3</b>	POWERPOLE	96	55.20	181.1

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARHB <b>Ref Mon # 2</b> ARLV <b>Ref Mon # 3</b> ARMG, ARMO	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG.

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	33    6    4.9725036
<b>Longitude</b>	91    14    54.2559768
<b>Ellipsoid Height (M):</b>	7.552    0.0050
<b>Geoid Height (M):</b>	-26.075    0.0050

Location Description
TO REACH FROM THE JCT. OF HWY 65 AND HWY 8/E ARMSTRONG ST. IN EUDORA, HEAD SOUTH ON HWY 65 FOR 0.95 MILES TO HWY 8 EAST. HEAD EAST/LEFT ON HWY 8 EAST FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.7FT E OF THE CENTER LINE OF HWY 8 EAST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090033A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740008	<b>Date Monumented</b> 3/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> WOODRUFF	<b>Route</b> 17	<b>Job Number:</b> 110754
--------------------------	------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	110,548.8832	0.0010			
<b>Easting (M)</b>	473,471.8068	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	362,692.4610				
<b>Easting (SFT)</b>	1,553,382.0861				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	28	12.8695151
<b>Scale Factor</b>	0.999945952		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	63	2.30	7.5
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARBT	
Ref Mon # 2    ARJB	
Ref Mon # 3    ARSC, ARWY	

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   19   37.4833344
<b>Longitude</b>	91   11   30.7852692
<b>Ellipsoid Height (M):</b>	36.138   0.0050
<b>Geoid Height (M):</b>	-27.395   0.0050

Location Description
<p>TO REACH FROM THE JCT. OF HWY 64 AND HWY 17 IN MCCRORY, HEAD NORTH ON HWY 17 FOR 4.0 MILES TO COUNTY ROAD 330. HEAD EAST/RIGHT ON COUNTY ROAD 330 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.5FT NORTH OF THE CENTER LINE OF COUNTY ROAD 330. THE STATION MARK IS A 2 1/2IN CAP STAMPED "740008 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 740008A	<b>Date Monumented</b> 3/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> WOODRUFF	<b>Route</b> 17	<b>Job Number:</b> 110754
---------------------------	------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	110,553.6835	0.0010	
<b>Easting (M)</b>	473,070.9380	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	362,708.2099		
<b>Easting (SFT)</b>	1,552,066.9024		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	28	3.6343807
<b>Scale Factor</b>	0.999945946		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	CONCRETE PILLAR	213	0.60	2.0
<b>MK # 2</b>	POWERPOLE	300	8.30	27.2
<b>MK # 3</b>	CORA LEE JONES HEADSTONE	97	8.80	28.9

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARJB <b>Ref Mon # 3</b> ARSC, ARWY	<b>Comments</b>  <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
---	---

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality		
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	Geoid 18		
<b>Latitude</b>	35	19	37.7455656
<b>Longitude</b>	91	11	46.6559484
<b>Ellipsoid Height (M):</b>	36.059	0.0050	
<b>Geoid Height (M):</b>	-27.396	0.0050	

  

Location Description
TO REACH FROM THE JCT. OF HWY 64 AND HWY 17 IN MCCRORY, HEAD NORTH ON HWY 17 FOR 4.0 MILES TO COUNTY ROAD 330. HEAD EAST/RIGHT ON COUNTY ROAD 330 FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.0FT NORTH OF THE CENTER LINE OF COUNTY ROAD 330, AND 13.1FT E OF A CEMETERY DRIVE WAYTHE STATION MARK IS A 2 1/2IN CAP STAMPED "740008A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 720072	<b>Date Monumented</b> 3/14/2023	<b>Monumented By</b> ARDOT	<b>County</b> WASHINGTON	<b>Route</b> N/A	<b>Job Number:</b> CB7201
--------------------------	-------------------------------------	-------------------------------	-----------------------------	---------------------	------------------------------

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	202,120.0118	0.0020			
<b>Easting (M)</b>	205,307.6439	0.0010			
<b>Elevation (M)*</b>	362.696				
<b>Northing (SFT)</b>	663,122.0720				
<b>Easting (SFT)</b>	673,580.1617				
<b>Elevation (SFT)*</b>	1,189.945				

  

<b>Convergence Angle</b>	-1	15	31.6560489
<b>Scale Factor</b>	0.999982189		
<b>Elevation Adjust. Factor</b>	0.9999430844		
<b>Combined Adjust. Factor</b>	0.9999252744		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	60	22.20	72.8
MK # 2	LIGHTPOLE 148246	288	25.30	83.0
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201
Ref Mon # 2: ARHR	
Ref Mon # 3: CTA1, 720063, 720063A	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320040	<b>Date Monumented</b> 4/3/2023	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050439
--------------------------	------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	160,733.7011	0.0020
<b>Easting (M)</b>	438,749.8953	0.0020
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	527,340.4844	
<b>Easting (SFT)</b>	1,439,465.2815	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0 14	57.8873393
<b>Scale Factor</b>	0.999941834	
<b>Elevation Adjust. Factor</b>		
<b>Combined Adjust. Factor</b>		

  

<b>SUPERCEDED CONTROL</b>		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

  

<b>Location Description</b>			
TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.8 MILES TO MACK ST. HEAD SOUTH/RIGHT ON MACK ST FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.7FT W OF THE CL OF MACK ST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	JANE AND ANDREW GOODWIN HEADSTON	118	4.10	13.5
<b>MK # 2</b>	CENTER OF REHOBETH CEMETERY SIGN	87	13.70	44.9
<b>MK # 3</b>	POWERPOLE	156	30.60	100.4

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARJB, ARBT(VERT) <b>Ref Mon # 2</b> ARSC <b>Ref Mon # 3</b> ARM3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;">                     BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB &amp; ARSC                 </td> </tr> </table>	Comments	BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC
Comments			
BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 320040A	<b>Date Monumented</b> 4/3/2023	<b>Monumented By</b> ARDOT	<b>County</b> INDEPENDENCE	<b>Route</b> 25	<b>Job Number:</b> 050439
---------------------------	------------------------------------	-------------------------------	-------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	161,145.7559	0.0020			
<b>Easting (M)</b>	438,694.8478	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	528,692.3675				
<b>Easting (SFT)</b>	1,439,284.6798				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	14	56.6533358
<b>Scale Factor</b>	0.999942059		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32.4FT S OF THE CL OF HWY 25, AND 3.4FT N OF A FE POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	76	31.10	102.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB, ARBT (VERT) Ref Mon # 2    ARSC Ref Mon # 3    ARM3	<b>Comments</b> BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340015	<b>Date Monumented</b> 4/10/2023	<b>Monumented By</b> ARDOT	<b>County</b> JACKSON	<b>Route</b> 17	<b>Job Number:</b> 050451
--------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	139,234.6658	0.0020			
<b>Easting (M)</b>	469,376.6812	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	456,805.7327				
<b>Easting (SFT)</b>	1,539,946.6616				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	26	43.6559373
<b>Scale Factor</b>	0.999935936		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH FROM THE JCT. OF HWY I-67 AND HWY 17 IN NEWPORT, HEAD SOUTH ON HWY 17 FOR 1.15 MILES TO COUNTY ROAD 255. HEAD LEFT/EAST ON COUNTY ROAD 255 FOR 0.05 MILES TO COUNTY ROAD 252. HEAD NORTH/LEFT ON COUNTY ROAD 252 FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.0FT N OF THE CENTER LINE OF COUNTY ROAD 252. THE STATION MARK IS A 2 1/2IN CAP STAMPED "340015 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>			

  

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWERPOLE	207	10.50	34.4	340015A
MK # 2					
MK # 3					

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARJB <b>Ref Mon # 3</b> ARSC, ARWY	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 340015A	<b>Date Monumented</b> 4/10/2023	<b>Monumented By</b> ARDOT	<b>County</b> JACKSON	<b>Route</b> 17	<b>Job Number:</b> 050451
---------------------------	-------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	138,832.0199	0.0020	
<b>Easting (M)</b>	469,339.8460	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	455,484.7186		
<b>Easting (SFT)</b>	1,539,825.8114		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	26	42.7322001
<b>Scale Factor</b>	0.999935936		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	261	20.10	65.9
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARJB <b>Ref Mon # 3</b> ARSC, ARWY	

  

**Vertical Determined By:** GPS - Unknown Quality

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude**    35    34    56.2940868

**Longitude**    91    14    5.6872284

**Ellipsoid Height (M):**    44.442    0.0060

**Geoid Height (M):**    -27.513    0.0060

  

**Location Description**

TO REACH FROM THE JCT. OF I-67 AND HWY 17 IN NEWPORT, HEAD SOUTH ON HWY 17 FOR 1.15 MILES TO COUNTY ROAD 255. HEAD LEFT/EAST ON COUNTY ROAD 255 FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 54.6FT SOUTH OF THE CENTER LINE OF COUNTY ROAD 255, AND 81.7FT WEST OF THE CENTER LINE OF COUNTY ROAD 252. THE STATION MARK IS A 2 1/2IN CAP STAMPED "340015A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150014	<b>Date Monumented</b> 4/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> HWY 113	<b>Job Number:</b> 113
--------------------------	------------------------------------	-------------------------------	-------------------------	-------------------------	---------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b>
<b>Northing (M)</b> 84,097.0298	<b>0.0010</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 332,351.9922	<b>0.0010</b>	<b>Latitude</b> 35 5 20.6333592
<b>Elevation (M)*</b> 92.672		<b>Longitude</b> 92 44 30.7312980
<b>Northing (SFT)</b> 275,908.3386		<b>Ellipsoid Height (M):</b> 64.194 0.0060
<b>Easting (SFT)</b> 1,090,391.4944		<b>Geoid Height (M):</b> -28.481 0.0060
<b>Elevation (SFT)*</b> 304.042		

  

<b>Convergence Angle</b>	<b>0</b>	<b>25</b>	<b>54.0962135</b>
<b>Scale Factor</b>	<b>0.999973037</b>		
<b>Elevation Adjust. Factor</b>	<b>0.9999854569</b>		
<b>Combined Adjust. Factor</b>	<b>0.9999584943</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	116		
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCW	
<b>Ref Mon # 2</b> ARDV	
<b>Ref Mon # 3</b> ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350037	<b>Date Monumented</b> 4/12/2022	<b>Monumented By</b> S5101	<b>County</b> JEFFERSON	<b>Route</b> 365	<b>Job Number:</b> 020661
--------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	586,650.4715	0.0061	
<b>Easting (M)</b>	386,761.9113	0.0062	
<b>Elevation (M)*</b>	101.335	0.0035	
<b>Northing (SFT)</b>	1,924,702.4219		
<b>Easting (SFT)</b>	1,268,901.3707		
<b>Elevation (SFT)*</b>	332.463		

  

<b>Convergence Angle</b>	0	4	49.9309002
<b>Scale Factor</b>	0.999933535		
<b>Elevation Adjust. Factor</b>	0.9999840975		
<b>Combined Adjust. Factor</b>	0.9999176336		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	SERVICE POLE W GUY	50	10.06	33.0
<b>MK # 2</b>	NORTHWEST CORNER OF BLOCK BUILDIN	95	23.47	77.0
<b>MK # 3</b>	WEST EDGE OF SIGN	130	5.18	17.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARSH	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID18

**Latitude**    34    20    57.9690240

**Longitude**    92    8    38.0198760

**Ellipsoid Height (M):**    75.299    0.0130

**Geoid Height (M):**    -26.037

**Location Description**

FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.39 MILES TO THE INTERSECTION OF STATE HIGHWAY 365 AND ROEMER ROAD AND THE STATION ON THE RIGHT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037 (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 11.89 METERS RIGHT OF THE CENTERLINE OF STATE HIGHWAY 365 AND 26.52 METERS SOUTH OF THE CENTERLINE OF ROEMER ROAD.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 350037A	<b>Date Monumented</b> 4/12/2022	<b>Monumented By</b> S5101	<b>County</b> JEFFERSON	<b>Route</b> 365	<b>Job Number:</b> 020661
---------------------------	-------------------------------------	-------------------------------	----------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	587,202.8091 0.0063
<b>Easting (M)</b>	386,277.9424 0.0065
<b>Elevation (M)*</b>	102.077 0.0035
<b>Northing (SFT)</b>	1,926,514.5495
<b>Easting (SFT)</b>	1,267,313.5494
<b>Elevation (SFT)*</b>	334.898

  

<b>Convergence Angle</b>	0 5 0.5480422
<b>Scale Factor</b>	0.999934014
<b>Elevation Adjust. Factor</b>	0.9999839810
<b>Combined Adjust. Factor</b>	0.9999179961

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	330	18.59	61.0
MK # 2	FENCE CORNER	140	15.85	52.0
MK # 3	SERVICE POLE W GUY	280	26.00	85.3

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARPB <b>Ref Mon # 2</b> ARLR <b>Ref Mon # 3</b> ARSH	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

  

Location Description	
FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.83 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037A (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 14.29 METERS LEFT OF THE CENTERLINE OF STATE HIGHWAY 365 AND NEAR THE TOP OF THE OUTER DITCH BANK.	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 21 15.8728680
<b>Longitude</b>	92 8 56.9895360
<b>Ellipsoid Height (M):</b>	76.047 0.0137
<b>Geoid Height (M):</b>	-26.038

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 180033A	<b>Date Monumented</b> 5/28/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRITTENDEN	<b>Route</b> LEGE BL	<b>Job Number:</b> 110738
---------------------------	-------------------------------------	-------------------------------	-----------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	92,056.7061 0.0010
<b>Easting (M)</b>	561,791.3000 0.0010
<b>Elevation (M)*</b>	64.632
<b>Northing (SFT)</b>	302,022.7099
<b>Easting (SFT)</b>	1,843,143.6234
<b>Elevation (SFT)*</b>	212.048

  

<b>Convergence Angle</b>	1 1 59.8410293
<b>Scale Factor</b>	0.999964480
<b>Elevation Adjust. Factor</b>	0.9999898572
<b>Combined Adjust. Factor</b>	0.9999543375

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	<b>Elevation Datum:</b> NAVD 88
<b>Geoid Datum:</b> Geoid 18	<b>Latitude</b> 35 8 59.8534044
<b>Longitude</b> 90 13 27.4126080	<b>Ellipsoid Height (M):</b> 37.319 0.0030
<b>Geoid Height (M):</b> -27.293 0.0030	

  

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO COLLEGE BLVD. HEAD NORTH/RIGHT ON COLLEGE BLVD FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.5FT E OF THE EP OF COLLEGE BLVD, AND 29.7FT E OF THE CENTER OF A STORM SEWER MANHOLE. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	LIGHT POLE	315	16.90	55.4
<b>MK # 2</b>	FIRE HYDRANT	32	4.00	13.1
<b>MK # 3</b>	BRICK FENCE CORNER	184	7.00	23.0

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWM, ARWY</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	AROC	Ref Mon # 3	ARWM, ARWY	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 1	ARJB						
Ref Mon # 2	AROC						
Ref Mon # 3	ARWM, ARWY						

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260042	<b>Date Monumented</b> 8/25/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> HWY 70	<b>Job Number:</b> BR2606
--------------------------	-------------------------------------	-------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	604,518.8892	0.0020	
<b>Easting (M)</b>	312,024.2501	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,983,325.7223		
<b>Easting (SFT)</b>	1,023,699.5605		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	10.3877736
<b>Scale Factor</b>	0.999952380		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	133	8.60	28.2
MK # 2	GUY POLE	94	6.80	22.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LT:34.3025 LG:92.5729</td> </tr> </table>	Comments	LT:34.3025 LG:92.5729
Ref Mon # 1	ARGS								
Ref Mon # 2	ARLR								
Ref Mon # 3	ARRV								
Comments									
LT:34.3025 LG:92.5729									

  

**Location Description**

TO REACH FROM THE JCT. OF HWY 70 AND HWY 270 NEAR HOT SPRINGS, HEAD NORTH ON HWY 70 FOR 2.4 MILES, THEN TAKE EXIT 11A TO STAY ON HWY 70. CONTINUE ON HWY 70 FOR 0.9 MILES TO THE STATION ON THE RIGHT. THE STATION WILL BE ON TOP OF THE HILL IN FRONT OF THE LEARN AND PLAY ENRICHMENT ACADEMY. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "260042 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260042A	<b>Date Monumented</b> 8/25/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> HWY 70	<b>Job Number:</b> BR2606
---------------------------	-------------------------------------	-------------------------------	--------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	604,584.6668	0.0020	
<b>Easting (M)</b>	311,597.0634	0.0020	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,983,541.5277		
<b>Easting (SFT)</b>	1,022,298.0322		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	19.7742431
<b>Scale Factor</b>	0.999952460		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE JCT. OF HWY 70 AND HWY 270 NEAR HOT SPRINGS, HEAD NORTH ON HWY 70 FOR 2.4 MILES, THEN TAKE EXIT 11A TO STAY ON HWY 70. CONTINUE ON HWY 70 FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION WILL BE ON TOP OF A HILL AT THE CRESTVIEW CEMETARY. THE POINT IS 32.7FT S OF THE CENTER OF THE ROAD THROUGH THE CEMETARY. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "260042A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH CORNER OF CRESTVIEW CEMETARY BACK SIGN	224	13.50	44.3
MK # 2	LaLUMANDIER MONUMENT	201	37.80	124.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARGS Ref Mon # 2    ARLR Ref Mon # 3    ARRV	<b>Comments</b> LT:34.3027   LG:92.5746
--	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170038	<b>Date Monumented</b> 9/12/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040885
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	129,574.8561	0.0010			
<b>Easting (M)</b>	186,230.4010	0.0010			
<b>Elevation (M)*</b>	186.238				
<b>Northing (SFT)</b>	425,113.5071				
<b>Easting (SFT)</b>	610,990.9073				
<b>Elevation (SFT)*</b>	611.014				

  

<b>Convergence Angle</b>	-1	22	15.1413093
<b>Scale Factor</b>	0.999937638		
<b>Elevation Adjust. Factor</b>	0.9999707741		
<b>Combined Adjust. Factor</b>	0.9999084139		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	209	10.30	33.8
MK # 2	STORM SEWER MANHOLE	272	15.20	49.9
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV, OKMU	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170038A	<b>Date Monumented</b> 9/12/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040885
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	129,876.0903	0.0010			
<b>Easting (M)</b>	186,218.2595	0.0010			
<b>Elevation (M)*</b>	171.713				
<b>Northing (SFT)</b>	426,101.8063				
<b>Easting (SFT)</b>	610,951.0730				
<b>Elevation (SFT)*</b>	563.362				

  

<b>Convergence Angle</b>	-1	22	15.5878783
<b>Scale Factor</b>	0.999937552		
<b>Elevation Adjust. Factor</b>	0.9999730533		
<b>Combined Adjust. Factor</b>	0.9999106070		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRAFFIC SIGNAL POLE	24	10.00	32.8
MK # 2	MAILBOX	203	18.60	61.0
MK # 3	SERVICE POLE	138	27.80	91.2

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> ARFY <b>Ref Mon # 2</b> ARRV <b>Ref Mon # 3</b> OKHV, OKMU	<b>Comments</b> ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28
---	--

  

Location Description	
TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 1.25 MILES TO THE STATION ON THE LEFT, THE STATION IS 31.9FT W OF THE CL OF HWY 59. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170038A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.	

  

<b>AZ Mark Station</b>	170038
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170039	<b>Date Monumented</b> 9/12/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040885
--------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	132,233.0463	0.0010			
<b>Easting (M)</b>	186,161.7766	0.0010			
<b>Elevation (M)*</b>	236.404				
<b>Northing (SFT)</b>	433,834.5861				
<b>Easting (SFT)</b>	610,765.7621				
<b>Elevation (SFT)*</b>	775.601				

  

<b>Convergence Angle</b>	-1	22	18.1939098
<b>Scale Factor</b>	0.999936956		
<b>Elevation Adjust. Factor</b>	0.9999629019		
<b>Combined Adjust. Factor</b>	0.9998998603		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AOG GAS UM	138	16.20	53.1
MK # 2	8FT BRICK PILLAR	7	3.00	9.8
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV, OKMU	

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 30 7.8405408
<b>Longitude</b>	94 21 26.3401092
<b>Ellipsoid Height (M):</b>	206.805 0.0060
<b>Geoid Height (M):</b>	-29.576 0.0060

Location Description
<p>TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 2.6 MILES TO SCOTTS FARM DRIVE. GO WEST/LEFT ON SCOTTS FARM DRIVE FOR 0.2 MILES TO SCOTTS FARM LOOP. GO RIGHT/NORTH FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS APPROXIMATELY 350FT. EAST OF THE ROAD. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 170039A	<b>Date Monumented</b> 9/12/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAWFORD	<b>Route</b> 59	<b>Job Number:</b> 040885
---------------------------	-------------------------------------	-------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	132,655.2042	0.0010			
<b>Easting (M)</b>	186,373.2572	0.0010			
<b>Elevation (M)*</b>	234.478				
<b>Northing (SFT)</b>	435,219.6158				
<b>Easting (SFT)</b>	611,459.5947				
<b>Elevation (SFT)*</b>	769.283				

  

<b>Convergence Angle</b>	-1	22	13.5451589
<b>Scale Factor</b>	0.999936862		
<b>Elevation Adjust. Factor</b>	0.9999632041		
<b>Combined Adjust. Factor</b>	0.9999000684		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOC UM	126	1.95	6.4
MK # 2	POWERPOLE	2	26.30	86.3
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV, OKMU	

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** Geoid 18

**Latitude:** 35 30 21.6994788

**Longitude:** 94 21 18.3511800

**Ellipsoid Height (M):** 204.901 0.0060

**Geoid Height (M):** -29.555 0.0060

  

**Location Description**

TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 34.1FT W OF THE CL OF HWY 59, AND 15.8FT NE OF A WATER VALVE. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160045	<b>Date Monumented</b> 9/29/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> HWY 91	<b>Job Number:</b> 101066
--------------------------	-------------------------------------	-------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	168,964.6158	0.0010	
<b>Easting (M)</b>	506,594.7649	0.0010	
<b>Elevation (M)*</b>	95.268		
<b>Northing (SFT)</b>	554,344.7437		
<b>Easting (SFT)</b>	1,662,052.9912		
<b>Elevation (SFT)*</b>	312.558		

  

<b>Convergence Angle</b>	0	41	12.1276633
<b>Scale Factor</b>	0.999946704		
<b>Elevation Adjust. Factor</b>	0.9999850496		
<b>Combined Adjust. Factor</b>	0.9999317544		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAILBOX	333	13.60	44.6
MK # 2	POWERPOLE	68	18.10	59.4
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPG, ARWY</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	ARJB	Ref Mon # 3	ARPG, ARWY	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.
Ref Mon # 1	ARBT								
Ref Mon # 2	ARJB								
Ref Mon # 3	ARPG, ARWY								
Comments									
ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.									

  

Location Description	
TO REACH FROM THE JCT. OF HWY 349 AND HWY 91 NEAR WESTSIDE SCHOOLS IN JONESBORO, HEAD WEST ON HWY 91 FOR 1.2MILES TO COUNTY ROAD 133. TURN RIGHT/NORTH ON COUNTY ROAD 133 AND THE STATION WILL BE ON THE RIGHT. THE STATION IS 18.0FT E OF COUNTY ROAD 133, AND 57.8FT N OF THE CL OF HWY 91. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "160045 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 160045A	<b>Date Monumented</b> 9/29/2022	<b>Monumented By</b> ARDOT	<b>County</b> CRAIGHEAD	<b>Route</b> HWY 91	<b>Job Number:</b> 101066
---------------------------	-------------------------------------	-------------------------------	----------------------------	------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	169,334.2393	0.0010			
<b>Easting (M)</b>	506,603.3983	0.0010			
<b>Elevation (M)*</b>	95.309				
<b>Northing (SFT)</b>	555,557.4168				
<b>Easting (SFT)</b>	1,662,081.3159				
<b>Elevation (SFT)*</b>	312.694				

  

<b>Convergence Angle</b>	0	41	12.4306144
<b>Scale Factor</b>	0.999946975		
<b>Elevation Adjust. Factor</b>	0.9999850431		
<b>Combined Adjust. Factor</b>	0.9999320189		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	128	20.60	67.6
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARBT	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.
Ref Mon # 2 ARJB	
Ref Mon # 3 ARPG, ARWY	

  

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 51 14.0368860
<b>Longitude</b>	90 49 11.1010152
<b>Ellipsoid Height (M):</b>	67.480 0.0030
<b>Geoid Height (M):</b>	-27.811 0.0030

  

Location Description
<p>TO REACH FROM THE JCT. OF HWY 349 AND HWY 91 NEAR WESTSIDE SCHOOLS IN JONESBORO, HEAD WEST ON HWY 91 FOR 1.2 MILES TO COUNTY ROAD 133. TURN RIGHT/NORTH ON COUNTY ROAD 133 FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.9FT EAST OF COUNTY ROAD 133, AND 79.3FT SOUTH OF COUNTY ROAD 132. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "160045A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
H 315 A RESET	9/29/2022	ARDOT	CRAIGHEAD	91	101066

  

<b>Zone</b>	<b>Zone Code</b>				
Arkansas North	301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	169,334.5280	0.0010			
<b>Easting (M)</b>	510,762.6139	0.0010			
<b>Elevation (M)*</b>	85.873				
<b>Northing (SFT)</b>	555,558.3639				
<b>Easting (SFT)</b>	1,675,727.0091				
<b>Elevation (SFT)*</b>	281.736				

  

<b>Convergence Angle</b>	0	42	48.8847402
<b>Scale Factor</b>	0.999946938		
<b>Elevation Adjust. Factor</b>	0.9999865239		
<b>Combined Adjust. Factor</b>	0.9999334626		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BILLBOARD POST	226	27.50	90.2
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.
Ref Mon # 2	
Ref Mon # 3	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> H 315	<b>Date Monumented</b> 1/1/1990	<b>Monumented By</b> NGS	<b>County</b> CRAIGHEAD	<b>Route</b> 91	<b>Job Number:</b> 101066
-------------------------	------------------------------------	-----------------------------	----------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	169,665.1168 0.0010
<b>Easting (M)</b>	510,518.4427 0.0010
<b>Elevation (M)*</b>	87.926 0.0001
<b>Northing (SFT)</b>	556,642.9707
<b>Easting (SFT)</b>	1,674,925.9241
<b>Elevation (SFT)*</b>	288.471

  

<b>Convergence Angle</b>	0 42 43.3176107
<b>Scale Factor</b>	0.999947185
<b>Elevation Adjust. Factor</b>	0.9999862017
<b>Combined Adjust. Factor</b>	0.9999333875

  

SUPERCEDED CONTROL	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Vertical Determined By:</b>	1st Order - NGS
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 51 23.2214112
<b>Longitude</b>	90 46 34.9107204
<b>Ellipsoid Height (M):</b>	60.105 0.0030
<b>Geoid Height (M):</b>	-27.810 0.0030

  

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3				

  

<b>AZ Mark Station</b> H 315 A RESET	
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARBT <b>Ref Mon # 2</b> ARJB <b>Ref Mon # 3</b> ARPG, ARWY	THIS IS AN NGS 1ST ORDER CLASS II BM

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640018	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> SEARCY	<b>Route</b> 65	<b>Job Number:</b> 090672
--------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	166,403.7974	
<b>Easting (M)</b>	348,629.1636	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	545,943.1253	
<b>Easting (SFT)</b>	1,143,794.1809	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	19	51.0845420
<b>Scale Factor</b>	0.999945247		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description				
<p>THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.8 MILES TO THE STATION ON THE RIGHT 44 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAY AND 17 FEET SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018A, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.</p>				

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOLLAR GENERAL SIGN	355	13.70	44.9
MK # 2	NORTH END OF A HEAD WALL	148	23.50	77.1
MK # 3				

  

Area Reference Monuments (used for Processing)		<b>Comments</b>  70 FT SOUTHEAST OF THE CENTER LINE OF A CONCRETE DRIVEWAY LEADING TO DOLLAR GENERAL. 25 FT SOUTHWEST OF THE EDGE OF A CONCRETE PARKING LOT FOR DOLLAR GENERAL.
Ref Mon # 1	ARHR	
Ref Mon # 2	ARRV	
Ref Mon # 3	ARBT	

  

<b>AZ Mark Station</b>	640018A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 640018A	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> Searcy	<b>Route</b> 65	<b>Job Number:</b> 090672
---------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	166,775.6644	
<b>Easting (M)</b>	348,295.1553	
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	547,163.1590	
<b>Easting (SFT)</b>	1,142,698.3553	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	19	58.8788015
<b>Scale Factor</b>	0.999945500		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	47	5.50	18.0
MK # 2	WATERLINE STAND PIPE	100	6.10	20.0
MK # 3	NORTHWEST COR. BLOCK BLD.	8	21.30	69.9

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARHR Ref Mon # 2    ARRV Ref Mon # 3    ARBT	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

  

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35 50 6.8741880
<b>Longitude</b>	92 34 20.2863000
<b>Ellipsoid Height (M):</b>	280.301
<b>Geoid Height (M):</b>	-27.962

Location Description
THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.5 MILES TO THE STATION ON THE RIGHT 50.0 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
260020A (2022)	4/10/2003	AHTD	GARLAND	70	R60140

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	604,316.2123	0.0010
<b>Easting (M)</b>	308,179.7777	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,982,660.7732	
<b>Easting (SFT)</b>	1,011,086.4873	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	33	34.6955420
<b>Scale Factor</b>	0.999952070		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>
<b>Horizontal Datum</b>
<b>Latitude</b>
<b>Longitude</b>
<b>Ellipsoid Height:</b>
<b>Grid Northing (Meters)</b>
<b>Grid Easting (Meters)</b>

  

<b>Location Description</b>			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

  

<b>Location Reference Marks</b>				
<b>Description</b>	<b>Azimuth</b>	<b>Distance</b>		
		<b>Meters</b>	<b>Feet</b>	
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARDQ	THIS IS THE SAME GPS MONUMENT AS 260020A. A NEW DATA SHEET WAS CREATED TO PUBLISH A NEWLY TRACKED NAD 83 (2011) POSITION FROM STATIC WORK PERFORMED ON 10-17-22.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260020 RESET	<b>Date Monumented</b> 4/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> 70	<b>Job Number:</b> R60140
--------------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	604,286.5663	0.0010			
<b>Easting (M)</b>	308,834.6745	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	1,982,563.5096				
<b>Easting (SFT)</b>	1,013,235.0946				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	33	20.3205621
<b>Scale Factor</b>	0.999952040		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND HIGHWAY 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 FOR 2.6 MILES TO THE STATION ON THE RIGHT, SOUTH OF THE SERVICE ROAD AND NEXT TO A 5 STRAN BARB WIRE FENCE. THE STATION IS 11.0 METERS SOUTH OF THE CENTERLINE OF THE SERVICE ROAD AND NORTH 1.05 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ""260020 2003"" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND."</p>			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	260020A (2022)
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						
					Grid Azimuth	

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARDQ	EXISTING 260020 REBAR FOUND WITH CAP REMOVED. SET NEW CAP AND RE-TRACKED ON 10-17-22.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARLR, ARR V	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260039	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
--------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	606,019.0377	0.0010	
<b>Easting (M)</b>	309,725.1881	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,988,247.4595		
<b>Easting (SFT)</b>	1,016,156.7213		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	33	1.1475049
<b>Scale Factor</b>	0.999954322		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>FROM THE INTERCHANGE OF HWY. 70 &amp; 70B N.B. OVERPASS DIRECTLY OVER THE HWY. 70 MEDIAN FOLLOW THE NEWLY CONSTRUCTED ROUTE NORTH FOR APPROXIMATELY 1.30 MILES AND THE MARK IS LOCATED APPROXIMATELY 290 FEET LEFT OF CENTER OF THE NEWLY CONSTRUCTED ROADWAY AND ON TOP OF THE PEAK THAT CAN ONLY BE ACCESSED FROM PROMISE LAND DRIVE FROM THE WEST OF THE PEAK.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARDQ</p> <p>Ref Mon # 2    ARGS</p> <p>Ref Mon # 3    ARLR, ARRV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260040	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
--------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	608,388.8643	0.0010	
<b>Easting (M)</b>	309,859.7131	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,996,022.4656		
<b>Easting (SFT)</b>	1,016,598.0754		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	58.6943282
<b>Scale Factor</b>	0.999957549		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARDQ <b>Ref Mon # 2</b> ARGS <b>Ref Mon # 3</b> ARLR, ARRV	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

  

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	34    32    29.7489264
<b>Longitude</b>	92    58    55.3354536
<b>Ellipsoid Height (M):</b>	152.439    0.0030
<b>Geoid Height (M):</b>	-27.105    0.0030

  

Location Description
APPROXIMATELY 1,245 FEET NORTH OF THE DENISE LN. OVERPASS SET IN THE RIGHT TOP BANK OF THE NEWLY CONSTRUCTED ROADWAY.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260040A	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
---------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	607,924.9704	0.0010	
<b>Easting (M)</b>	309,758.4503	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,994,500.5071		
<b>Easting (SFT)</b>	1,016,265.8490		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	33	0.8192517
<b>Scale Factor</b>	0.999956906		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260039A	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
---------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	605,831.8688	0.0010	
<b>Easting (M)</b>	309,193.2176	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	1,987,633.3896		
<b>Easting (SFT)</b>	1,014,411.4147		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	33	12.7815843
<b>Scale Factor</b>	0.999954066		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	260039
<b>Geodetic Azimuth</b>	71° 10 ' 11"
<b>Grid Azimuth</b>	70° 36 ' 58"

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1    ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260041	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
--------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	612,356.2179	0.0010			
<b>Easting (M)</b>	310,010.7047	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,009,038.6916				
<b>Easting (SFT)</b>	1,017,093.4537				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	32	56.2144382
<b>Scale Factor</b>	0.999963264		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1: ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.
Ref Mon # 2: ARGS	
Ref Mon # 3: ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260041A	<b>Date Monumented</b> 10/17/2022	<b>Monumented By</b> ARDOT	<b>County</b> GARLAND	<b>Route</b> NEW LOC	<b>Job Number:</b> R60140
---------------------------	--------------------------------------	-------------------------------	--------------------------	-------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	611,947.5146	0.0010	
<b>Easting (M)</b>	310,078.8327	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	2,007,697.8042		
<b>Easting (SFT)</b>	1,017,316.9703		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	32	54.6324803
<b>Scale Factor</b>	0.999962658		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1    ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.
Ref Mon # 2    ARGS	
Ref Mon # 3    ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 260021 (2022)	<b>Date Monumented</b> 4/10/2003	<b>Monumented By</b> AHTD	<b>County</b> GARLAND	<b>Route</b> N/A	<b>Job Number:</b> R60140
---------------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	609,661.6785	0.0010			
<b>Easting (M)</b>	310,430.5407	0.0010			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	2,000,198.3569				
<b>Easting (SFT)</b>	1,018,470.8656				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	0	32	46.4310521
<b>Scale Factor</b>	0.999959347		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
SEE LOCATION DESCRIPTION FOR 260021			

  

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	260021A (2022)
			Meters	Feet		
MK # 1					<b>Geodetic Azimuth</b>	
MK # 2					<b>Grid Azimuth</b>	
MK # 3						

  

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	SAME MONUMENT AS 260021 WITH NEWLY TRACKED POSITION FROM STATIC WORK PERFORMED ON 10-17-22
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
260021A (2022)	4/10/2003	AHTD	GARLAND	N/A	R60140

  

<b>Zone</b>	<b>Zone Code</b>	<b>Vertical Determined By:</b>
Arkansas South	302	GPS - Unknown Quality
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	609,162.3743	0.0010
<b>Easting (M)</b>	310,578.7699	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	1,998,560.2230	
<b>Easting (SFT)</b>	1,018,957.1809	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	32	43.0726635
<b>Scale Factor</b>	0.999958642		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

<b>SUPERCEDED CONTROL</b>			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Location Description</b>			
SEE LOCATION DESCRIPTION FOR 260021A			

  

<b>Location Reference Marks</b>					
<b>Description</b>		<b>Azimuth</b>	<b>Distance</b>		
			<b>Meters</b>	<b>Feet</b>	
MK # 1					<b>AZ Mark Station</b>
MK # 2					<b>Geodetic Azimuth</b>
MK # 3					<b>Grid Azimuth</b>

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b>	SAME MONUMENT AS 260021A WITH NEWLY TRACKED POSITION FROM STATIC WORK PERFORMED ON 10-17-22
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460025 RESET	<b>Date Monumented</b> 10/25/2022	<b>Monumented By</b> ARDOT	<b>County</b> MILLER	<b>Route</b> R HILL I	<b>Job Number:</b> 030575
--------------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	492,925.4239	0.0010
<b>Easting (M)</b>	215,938.5422	0.0010
<b>Elevation (M)*</b>	98.734	

  

<b>Northing (SFT)</b>	1,617,206.1616	
<b>Easting (SFT)</b>	708,458.3672	
<b>Elevation (SFT)*</b>	323.931	

  

<b>Convergence Angle</b>	-1	6	30.9613920
<b>Scale Factor</b>	0.999963565		
<b>Elevation Adjust. Factor</b>	0.9999845056		
<b>Combined Adjust. Factor</b>	0.9999480712		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments</b> (used for Processing)</p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARDQ</p> <p>Ref Mon # 3    ARHP, TXMV</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> <p>ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 &amp; B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477</p> </td> </tr> </table>	Comments	<p>ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 &amp; B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477</p>
Comments			
<p>ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 &amp; B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477</p>			

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 460025A RESET	<b>Date Monumented</b> 10/25/2022	<b>Monumented By</b> ARDOT	<b>County</b> MILLER	<b>Route</b> R HILL I	<b>Job Number:</b> 030575
---------------------------------	--------------------------------------	-------------------------------	-------------------------	--------------------------	------------------------------

  

<b>Zone</b> Arkansas South	<b>Zone Code</b> 302	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	492,957.1854	0.0010
<b>Easting (M)</b>	215,168.2750	0.0010
<b>Elevation (M)*</b>	90.989	
<b>Northing (SFT)</b>	1,617,310.3658	
<b>Easting (SFT)</b>	705,931.2489	
<b>Elevation (SFT)*</b>	298.519	

  

<b>Convergence Angle</b>	-1	6	47.6721008
<b>Scale Factor</b>	0.999963540		
<b>Elevation Adjust. Factor</b>	0.9999857211		
<b>Combined Adjust. Factor</b>	0.9999492616		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST, LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF A GRAVEL DRIVE, 9.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 3.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025A RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	291	4.70	15.4
MK # 2	POWER POLE	282	19.20	63.0
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARCM</p> <p>Ref Mon # 2    ARDQ</p> <p>Ref Mon # 3    ARHP, TXMV</p>	<p style="text-align: center;"><b>Comments</b></p> <p>ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 &amp; B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b>	<b>Date Monumented</b>	<b>Monumented By</b>	<b>County</b>	<b>Route</b>	<b>Job Number:</b>
460027A RESET	10/25/2022	ARDOT	MILLER	I-30	030575, 030575

  

<b>Zone</b>	<b>Zone Code</b>
Arkansas South	302
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	491,283.6311 0.0010
<b>Easting (M)</b>	212,141.7553 0.0010
<b>Elevation (M)*</b>	108.274

  

<b>Northing (SFT)</b>	1,611,819.7130	
<b>Easting (SFT)</b>	696,001.7422	
<b>Elevation (SFT)*</b>	355.228	

  

<b>Convergence Angle</b>	-1 7	52.5622712
<b>Scale Factor</b>	0.999966154	
<b>Elevation Adjust. Factor</b>	0.9999830086	
<b>Combined Adjust. Factor</b>	0.9999491632	

  

SUPERCEDED CONTROL		
<b>Horizontal Datum</b>		
<b>Latitude</b>		
<b>Longitude</b>		
<b>Ellipsoid Height:</b>		
<b>Grid Northing (Meters)</b>		
<b>Grid Easting (Meters)</b>		

Location Description
<p>"TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.30 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.8 METERS SOUTH OF THE EDGE OF THE WEST BOUND LANE, 7.45 METERS NORTH OF THE EDGE OF THE EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED ""460027A RESET 2022"" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND."</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL POST	91	22.20	72.8
MK # 2				
MK # 3				

  

<b>AZ Mark Station</b>	460027
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARCM <b>Ref Mon # 2</b> ARDQ <b>Ref Mon # 3</b> ARHP, TXMV	ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430023	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Lonoke	<b>Route</b> d Lonoke	<b>Job Number:</b> 061677 & 061759
--------------------------	------------------------------------	------------------------------------	-------------------------	--------------------------	---------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	51,074.3690	0.0010
<b>Easting (M)</b>	394,614.5469	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	167,566.4923	
<b>Easting (SFT)</b>	1,294,664.5593	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	3.2704195
<b>Scale Factor</b>	1.000030391		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone Box	195	8.84	29.0
MK # 2	Power Pole	260	16.45	54.0
MK # 3	Light Pole	140	11.89	39.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34    47    37.2612012
<b>Longitude</b>	92    3    31.8415608
<b>Ellipsoid Height (M):</b>	47.094    0.0050
<b>Geoid Height (M):</b>	-26.750    0.0000

Location Description
To reach from the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.15 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 28 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 39 ft. South of the centerline of a gravel driveway leading East and 5 ft west of a 6 ft chainlink fence.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430023A	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Lonoke	<b>Route</b> d Lonoke	<b>Job Number:</b> 061677 & 061759
---------------------------	------------------------------------	------------------------------------	-------------------------	--------------------------	---------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	51,549.1059    0.0010
<b>Easting (M)</b>	394,628.6662    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	169,124.0249	
<b>Easting (SFT)</b>	1,294,710.8824	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	2.9537137
<b>Scale Factor</b>	1.000029372		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Irrigation Well Head	95	10.36	34.0
MK # 2	North End of 18" Couragated Metal Pipe	200	5.79	19.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34    47    52.6666488
<b>Longitude</b>	92    3    31.2972984
<b>Ellipsoid Height (M):</b>	46.706    0.0050
<b>Geoid Height (M):</b>	-26.761    0.0000

Location Description
to reach From the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.45 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 29 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 32 ft. North of the centerline of a gravel driveway entrance leading east to a field road.

<b>AZ Mark Station</b>	430023
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430024	<b>Date Monumented</b> 6/26/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Lonoke	<b>Route</b> Interstate 4	<b>Job Number:</b> 061677 & 061759
--------------------------	-------------------------------------	------------------------------------	-------------------------	------------------------------	---------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	51,511.7664	0.0010
<b>Easting (M)</b>	397,505.0875	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	169,001.5203	
<b>Easting (SFT)</b>	1,304,147.9412	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	57.1101191
<b>Scale Factor</b>	1.000029450		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a Guardrail	111	32.31	106.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

<b>Vertical Determined By:</b>	3rd Order - Digital Levels
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 47 51.4957272
<b>Longitude</b>	92 1 38.1443628
<b>Ellipsoid Height (M):</b>	44.505 0.0050
<b>Geoid Height (M):</b>	-26.767 0.0000

Location Description
To reach from The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.9 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 76 ft South of the South edge of the South sholder of Westbound Interstate 40 and 76 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.1 miles West of the West bridge end over Bayou Meto.

<b>AZ Mark Station</b>	430024A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430024A	<b>Date Monumented</b> 6/26/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Lonoke	<b>Route</b> Interstate 4	<b>Job Number:</b> 061677 & 061759
---------------------------	-------------------------------------	------------------------------------	-------------------------	------------------------------	---------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	51,721.2612    0.0010
<b>Easting (M)</b>	398,053.3026    0.0010
<b>Elevation (M)*</b>	
<b>Northing (SFT)</b>	169,688.8378
<b>Easting (SFT)</b>	1,305,946.5436
<b>Elevation (SFT)*</b>	

  

<b>Convergence Angle</b>	0	0	44.5621678
<b>Scale Factor</b>	1.000029002		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
<p>To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.5 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024A , 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 75 ft South of the South edge of the South sholder of Westbound Interstate 40 and 75 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.2 miles East of the East bridge end over Bayou Meto.</p>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

  

<p style="text-align: center;"><b>Area Reference Monuments (used for Processing)</b></p> <p>Ref Mon # 1    ARLR</p> <p>Ref Mon # 2    ARHZ</p> <p>Ref Mon # 3    ARST</p>	<p style="text-align: center;"><b>Comments</b></p> <p>Three wire level were ran by S5101 in August of 2022 during jobs 061677 &amp; 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.</p>
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430025	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
--------------------------	------------------------------------	------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	51,040.0829	0.0010	
<b>Easting (M)</b>	400,487.5001	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	167,454.0053		
<b>Easting (SFT)</b>	1,313,932.7399		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	0	11.1586010
<b>Scale Factor</b>	1.000030461		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North end of a 36" Corugated Plastic Culvert	263	13.41	44.0
<b>MK # 2</b>	North end of a 36" corugated Plastic Culvert	205	32.92	108.0
<b>MK # 3</b>				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

  

**Vertical Determined By:** 3rd Order - Digital Levels

**Elevation Datum:** NAVD 88

**Geoid Datum:** GEOID18

**Latitude**    34    47    36.2004108

**Longitude**    91    59    40.8238224

**Ellipsoid Height (M):**    49.077    0.0050

**Geoid Height (M):**    -26.768    0.0000

  

**Location Description**

The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet West of the centerline of Arkansas State Highway 15, 24 feet North of the center of a gravel driveway.

  

<b>AZ Mark Station</b>	430025A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430025A	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
---------------------------	------------------------------------	--------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	51,531.7600	0.0010
<b>Easting (M)</b>	400,492.9095	0.0010
<b>Elevation (M)*</b>		

  

<b>Northing (SFT)</b>	169,067.1159	
<b>Easting (SFT)</b>	1,313,950.4873	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	0	11.2830343
<b>Scale Factor</b>	1.000029406		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

**Location Description**

To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.3 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet West of the centerline of Arkansas State Highway 15, 153 feet South of the centerline a paved road leading West to Remington Ammunition, and 111 feet North of the center of a gravel field entrance.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	East End of a Headwall	199	30.48	100.0
<b>MK # 2</b>	East Edge of a Sign	347	33.52	110.0
<b>MK # 3</b>	Combination Pole	114	28.04	92.0

  

<p style="text-align: center; margin: 0;"><b>Area Reference Monuments (used for Processing)</b></p> <p><b>Ref Mon # 1</b>    ARLR</p> <p><b>Ref Mon # 2</b>    ARHZ</p> <p><b>Ref Mon # 3</b>    ARST</p>	<p style="text-align: center; margin: 0;"><b>Comments</b></p> <p>Three wire level were ran by S5101 in August of 2022 during jobs 061677 &amp; 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.</p>
---	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430026	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
--------------------------	------------------------------------	--------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	52,587.8600 0.0010
<b>Easting (M)</b>	404,591.8235 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	172,532.0040	
<b>Easting (SFT)</b>	1,327,398.3409	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	1	45.1222822
<b>Scale Factor</b>	1.000027163		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.1 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 78 feet West of the centerline of Arkansas State Highway 89, 34 feet East of the centerline of Des Lauriers road and 9 feet North of the center of a gravel driveway.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	36	8.53	28.0
MK # 2	East End of a Headwall	271	14.93	49.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430026A	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
---------------------------	------------------------------------	--------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	53,220.2592	0.0010	
<b>Easting (M)</b>	404,602.6119	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	174,606.8004		
<b>Easting (SFT)</b>	1,327,433.7359		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	1	45.3766603
<b>Scale Factor</b>	1.000025831		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South End 30 in Corugated Metal Pipe	348	10.36	34.0
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARLR Ref Mon # 2    ARHZ Ref Mon # 3    ARST	<b>Comments</b>  Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.
---	---

  

Location Description	
To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.5 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet East of the centerline of Arkansas State Highway 89 and 38 feet South of the centerline of a gravel field entrance.	

  

<b>AZ Mark Station</b>	430026
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430027	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
--------------------------	------------------------------------	--------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	51,269.2156 0.0010
<b>Easting (M)</b>	407,815.9398 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	168,205.7515	
<b>Easting (SFT)</b>	1,337,976.1292	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	58.9069319
<b>Scale Factor</b>	1.000029976		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 34 feet West of the centerline of Arkansas State Highway 89 and 5 feet East of a pipe fence corner.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	North End 18 in Corugated Metal Pipe	185	9.45	31.0
<b>MK # 2</b>	South End 18 in Corugated Metal Pipe	26	3.66	12.0
<b>MK # 3</b>	Combination Pole	231	1.52	5.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430027A	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> State High	<b>Job Number:</b> 61759
---------------------------	------------------------------------	--------------------------------------	-------------------------	----------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	51,813.7138    0.0010
<b>Easting (M)</b>	407,855.4938    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	169,992.1594	
<b>Easting (SFT)</b>	1,338,105.8992	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	2	59.8231884
<b>Scale Factor</b>	1.000028811		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

**Location Description**

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.2 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 60 feet East of the centerline of Arkansas State Highway 89 and 35 feet North of the centerline of a paved field entrance.

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North End 24 in Corugated Metal Pipe	264		
MK # 2	Power Pole	175		
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
Ref Mon # 1    ARLR	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.
Ref Mon # 2    ARHZ	
Ref Mon # 3    ARST	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430028	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> Interstate 4	<b>Job Number:</b> 61759
--------------------------	------------------------------------	--------------------------------------	-------------------------	------------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	52,220.2631 0.0010
<b>Easting (M)</b>	411,406.8710 0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	171,325.9799	
<b>Easting (SFT)</b>	1,349,757.3759	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	21.1308666
<b>Scale Factor</b>	1.000027954		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	265	22.86	75.0
MK # 2	Power Pole	91	20.42	67.0
MK # 3				

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

  

<b>Vertical Determined By:</b> 3rd Order - Digital Levels	
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 48 14.2633008
<b>Longitude</b>	91 52 31.2437568
<b>Ellipsoid Height (M):</b>	45.823 0.0060
<b>Geoid Height (M):</b>	-26.849 0.0000

  

Location Description
To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 0.9 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 33 feet south of the centerline on Nathan Road and 96 feet West of the centerline of a paved driveway entrance leading South.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 430028A	<b>Date Monumented</b> 6/6/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Lonoke	<b>Route</b> Interstate 4	<b>Job Number:</b> 61759
---------------------------	------------------------------------	--------------------------------------	-------------------------	------------------------------	-----------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	52,232.2040	0.0010	
<b>Easting (M)</b>	411,911.3649	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	171,365.1560		
<b>Easting (SFT)</b>	1,351,412.5363		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	4	32.6802993
<b>Scale Factor</b>	1.000027930		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	182	2.74	9.0
MK # 2	West End 36 in Corugated Metal Pipe	69	11.28	37.0
MK # 3	Center of Headwall	279	28.04	92.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARLR <b>Ref Mon # 2</b> ARHZ <b>Ref Mon # 3</b> ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

  

Location Description	
To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 1.2 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028A, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet south of the centerline on Nathan Road and 52 feet West of the centerline of a paved driveway leading South to a one story brick residence.	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600080	<b>Date Monumented</b> 6/8/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Pulaski	<b>Route</b> Interstate 4	<b>Job Number:</b> 61677 & 61759
--------------------------	------------------------------------	--------------------------------------	--------------------------	------------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	
<b>Horizontal Datum</b>	NAD 83 (2011)	
<b>Northing (M)</b>	50,197.1781	0.0010
<b>Easting (M)</b>	389,341.9688	0.0010
<b>Elevation (M)*</b>		
<b>Northing (SFT)</b>	164,688.5751	
<b>Easting (SFT)</b>	1,277,366.1093	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	4	3.9333558
<b>Scale Factor</b>	1.000032297		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Concrete Right of Way Marker	170	4.27	14.0
<b>MK # 2</b>	Power Pole	98	12.80	42.0
<b>MK # 3</b>	Utility Marker (FOC)	252	40.54	133.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 2</b> <input style="width: 150px;" type="text"/> <b>Ref Mon # 3</b> <input style="width: 150px;" type="text"/>	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 47 8.6441460
<b>Longitude</b>	92 6 59.2021332
<b>Ellipsoid Height (M):</b>	47.972 0.0050
<b>Geoid Height (M):</b>	-26.724 0.0000

Location Description
To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 0.7 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.

<b>AZ Mark Station</b>	600080A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 600080A	<b>Date Monumented</b> 6/8/2022	<b>Monumented By</b> AHTD (S5101)	<b>County</b> Pulaski	<b>Route</b> Interstate 4	<b>Job Number:</b> 61677 & 61759
---------------------------	------------------------------------	--------------------------------------	--------------------------	------------------------------	-------------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	50,261.5642	0.0010	
<b>Easting (M)</b>	389,836.6391	0.0010	
<b>Elevation (M)*</b>			
<b>Northing (SFT)</b>	164,899.8152		
<b>Easting (SFT)</b>	1,278,989.0401		
<b>Elevation (SFT)*</b>			

  

<b>Convergence Angle</b>	0	3	52.6133706
<b>Scale Factor</b>	1.000032155		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	Concrete Right of Way Marker	174	4.27	14.0
<b>MK # 2</b>	Utility Marker (FOC)	205	4.27	14.0
<b>MK # 3</b>	Underpavement Drain Outlet	10	27.43	90.0

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b>	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, GALLOWAY 2 RM 1, METO 2, LONOKE W BASE, 238.8.
<b>Ref Mon # 2</b>	
<b>Ref Mon # 3</b>	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	34 47 10.7520108
<b>Longitude</b>	92 6 39.7486152
<b>Ellipsoid Height (M):</b>	47.234 0.0050
<b>Geoid Height (M):</b>	-26.725 0.0000

Location Description
<p>To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 1.0 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.</p>

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230040	<b>Date Monumented</b> 11/3/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Faulkner	<b>Route</b> 65	<b>Job Number:</b> 080685
--------------------------	-------------------------------------	------------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	96,575.1627 0.0010
<b>Easting (M)</b>	364,522.4835 0.0010
<b>Elevation (M)*</b>	132.420
<b>Northing (SFT)</b>	316,847.0130
<b>Easting (SFT)</b>	1,195,937.5146
<b>Elevation (SFT)*</b>	434.449

  

<b>Convergence Angle</b>	0 13 36.1802092
<b>Scale Factor</b>	0.999957914
<b>Elevation Adjust. Factor</b>	0.9999792194
<b>Combined Adjust. Factor</b>	0.9999371343

  

<b>SUPERCEDED CONTROL</b>	
<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

<b>Location Description</b>			
TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.8 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 10 FEET (3.05M) EAST OF THE BACK OF THE CURB, AND 61 FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY.			

  

<b>Location Reference Marks</b>				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	COMBINATION POLE	174	10.06	33.0
<b>MK # 2</b>	TELEPHONE PEDESTAL	15	25.91	85.0
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)  <b>Ref Mon # 1</b> <input type="text" value="ARRV"/> <b>Ref Mon # 2</b> <input type="text" value="ARSC"/> <b>Ref Mon # 3</b> <input type="text" value="ARLR"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td style="width: 80%;">                             10 FEET (3.05M) EAST OF THE BACK OF THE EAST CURB, FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK HOUSE.                         </td> <td style="width: 20%; text-align: right; vertical-align: top;">61</td> </tr> </table>	Comments		10 FEET (3.05M) EAST OF THE BACK OF THE EAST CURB, FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK HOUSE.	61
Comments					
10 FEET (3.05M) EAST OF THE BACK OF THE EAST CURB, FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK HOUSE.	61				

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230040A	<b>Date Monumented</b> 11/3/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Faulkner	<b>Route</b> 65	<b>Job Number:</b> 080685
---------------------------	-------------------------------------	------------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	97,110.9037 0.0010
<b>Easting (M)</b>	364,576.9001 0.0010
<b>Elevation (M)*</b>	115.245
<b>Northing (SFT)</b>	318,604.6899
<b>Easting (SFT)</b>	1,196,116.0464
<b>Elevation (SFT)*</b>	378.099

  

<b>Convergence Angle</b>	0 13 34.9770355
<b>Scale Factor</b>	0.999957361
<b>Elevation Adjust. Factor</b>	0.9999819146
<b>Combined Adjust. Factor</b>	0.9999392764

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Description			
TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040A, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 4.0 FEET (1.07M) EAST OF A WITNESS POST, 19 FEET (7.01M) WEST OF THE BACK OF THE CURB, 101 FEET (30.78M) SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, AND 107 FEET (32.61M) NORTH OF THE CENTER OF A PAVED FIELD ENTRANCE.			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	284	1.22	4.0
MK # 2	TELEPHONE HAND HOLE (IN GROUND)	5	40.54	133.0
MK # 3				

  

<b>Area Reference Monuments (used for Processing)</b>  Ref Mon # 1    ARR Ref Mon # 2    ARSC Ref Mon # 3    ARLR	<b>Comments</b>  23 FEET (7.01M) WEST OF THE BACK OF THE WEST CURB    107 FEET (32.61M) NORTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE 101 FEET (30.78M) SOUTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE
---	--

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230041	<b>Date Monumented</b> 11/3/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Faulkner	<b>Route</b> 65	<b>Job Number:</b> 080685
--------------------------	-------------------------------------	------------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	101,178.4213 0.0010
<b>Easting (M)</b>	364,716.2435 0.0010
<b>Elevation (M)*</b>	121.141

  

<b>Northing (SFT)</b>	331,949.5372	
<b>Easting (SFT)</b>	1,196,573.2089	
<b>Elevation (SFT)*</b>	397.443	

  

<b>Convergence Angle</b>	0	13	32.1396648
<b>Scale Factor</b>	0.999953390		
<b>Elevation Adjust. Factor</b>	0.9999809894		
<b>Combined Adjust. Factor</b>	0.9999343803		

  

**SUPERCEDED CONTROL**

<b>Horizontal Datum</b>	
<b>Latitude</b>	
<b>Longitude</b>	
<b>Ellipsoid Height:</b>	
<b>Grid Northing (Meters)</b>	
<b>Grid Easting (Meters)</b>	

  

**Location Description**

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL NORTH ALONG U.S. HIGHWAY 65, 1.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230041, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 13 FEET (3.96M) WEST OF THE BACK OF THE CURB, 98 FEET (29.87M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY, AND 67 FEET (20.42M) NORTH OF THE CENTER OF A PAVED DRIVEWAY.

  

**Location Reference Marks**

	Description	Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	WOODEN SIGN POST (COLE'S CUTS)	274	4.57	15.0
<b>MK # 2</b>	METAL SIGN POST (ALL APPLIANCES & MO RE)	355	21.33	70.0
<b>MK # 3</b>	STORM SEWER MAN HOLE	167	30.17	99.0

  

<b>AZ Mark Station</b>	230041A
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARRV	SOUTH 98 FEET (29.87M) FROM THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY METAL BUILDING    NORTH 67 FEET (20.42m) FROM THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK BUILDING
<b>Ref Mon # 2</b> ARSC	
<b>Ref Mon # 3</b> ARLR	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 230041A	<b>Date Monumented</b> 11/3/2022	<b>Monumented By</b> AHTD S5101	<b>County</b> Faulkner	<b>Route</b> 65	<b>Job Number:</b> 080685
---------------------------	-------------------------------------	------------------------------------	---------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301
<b>Horizontal Datum</b>	NAD 83 (2011)
<b>Northing (M)</b>	101,916.1955    0.0010
<b>Easting (M)</b>	364,758.8407    0.0010
<b>Elevation (M)*</b>	

  

<b>Northing (SFT)</b>	334,370.0514	
<b>Easting (SFT)</b>	1,196,712.9632	
<b>Elevation (SFT)*</b>		

  

<b>Convergence Angle</b>	0	13	31.2259871
<b>Scale Factor</b>	0.999952714		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	METAL SIGN POST	54	14.33	47.0
<b>MK # 2</b>	COMBINATION POLE	165	15.24	50.0
<b>MK # 3</b>	STORM SEWER MANHOLE	191	17.37	57.0

  

Area Reference Monuments (used for Processing)	Comments
<b>Ref Mon # 1</b> ARR V	14 FEET (4.68M) EAST OF THE BACK OF THE EAST CURB    29 FEET (8.84M) WEST OF THE BACK OF THE PARKING LOT CURB 57 FEET (17.37M) SOUTH OF THE CENTER OF A CONCRETE DRIVEWAY
<b>Ref Mon # 2</b> ARSC	
<b>Ref Mon # 3</b> ARLR	

<b>Vertical Determined By:</b>	
<b>Elevation Datum:</b>	
<b>Geoid Datum:</b>	GEOID18
<b>Latitude</b>	35    15    4.8884040
<b>Longitude</b>	92    23    14.1007092
<b>Ellipsoid Height (M):</b>	118.743    0.0110
<b>Geoid Height (M):</b>	-28.021    0.0000

Location Description
<p>TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL NORTH ALONG U.S. HIGHWAY 65, 1.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230041A, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 14 FEET (4.26M) EAST OF THE BACK OF THE CURB, 57 FEET (17.37M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY.</p>

<b>AZ Mark Station</b>	230041
<b>Geodetic Azimuth</b>	
<b>Grid Azimuth</b>	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150014A	<b>Date Monumented</b> 4/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> Hwy 113	<b>Job Number:</b> 113
---------------------------	------------------------------------	-------------------------------	-------------------------	-------------------------	---------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 84,450.9226	<b>0.0010</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 332,370.3395	<b>0.0010</b>	<b>Latitude</b> 35 5 32.1214128
<b>Elevation (M)*</b> 91.489		<b>Longitude</b> 92 44 30.1122204
<b>Northing (SFT)</b> 277,069.4019		<b>Ellipsoid Height (M):</b> 63.003 0.0060
<b>Easting (SFT)</b> 1,090,451.6888		<b>Geoid Height (M):</b> -28.487 0.0060
<b>Elevation (SFT)*</b> 300.160		

  

<b>Convergence Angle</b>	<b>0</b>	<b>25</b>	<b>53.7359728</b>
<b>Scale Factor</b>	<b>0.999972561</b>		
<b>Elevation Adjust. Factor</b>	<b>0.9999856426</b>		
<b>Combined Adjust. Factor</b>	<b>0.9999582040</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	POWER POLL W/TRANS	300	116.00	380.6
<b>MK # 2</b>	POWER POLL	16	82.00	269.0
<b>MK # 3</b>				

  

<b>AZ Mark Station</b> 150014	
<b>Geodetic Azimuth</b> 182°32'10.6"	
<b>Grid Azimuth</b>	

  

<b>Area Reference Monuments (used for Processing)</b>	<b>Comments</b>
<b>Ref Mon # 1</b> ARCW	
<b>Ref Mon # 2</b> ARDV	
<b>Ref Mon # 3</b> ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES



# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150015	<b>Date Monumented</b> 4/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> HWY 113	<b>Job Number:</b> 113
--------------------------	------------------------------------	-------------------------------	-------------------------	-------------------------	---------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 86,998.0001	<b>0.0010</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 332,397.8240	<b>0.0010</b>	<b>Latitude</b> 35 6 54.7789428
<b>Elevation (M)*</b> 88.700		<b>Longitude</b> 92 44 29.7845340
<b>Northing (SFT)</b> 285,425.9387		<b>Ellipsoid Height (M):</b> 60.174 0.0060
<b>Easting (SFT)</b> 1,090,541.8609		<b>Geoid Height (M):</b> -28.527 0.0060
<b>Elevation (SFT)*</b> 291.010		

  

<b>Convergence Angle</b>	0	25	53.5452924
<b>Scale Factor</b>	0.999969226		
<b>Elevation Adjust. Factor</b>	0.9999860803		
<b>Combined Adjust. Factor</b>	0.9999553067		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL FOR CROP FIELD	260	266.00	872.7
MK # 2				
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
Ref Mon # 1 ARCW	
Ref Mon # 2 ARDV	
Ref Mon # 3 ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 150015A	<b>Date Monumented</b> 4/6/2023	<b>Monumented By</b> ARDOT	<b>County</b> CONWAY	<b>Route</b> HWY 113	<b>Job Number:</b> 113
---------------------------	------------------------------------	-------------------------------	-------------------------	-------------------------	---------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301	<b>Vertical Determined By:</b> None
<b>Horizontal Datum</b> NAD 83 (2011)		<b>Elevation Datum:</b> 
<b>Northing (M)</b> 87,386.7714	<b>0.0010</b>	<b>Geoid Datum:</b> GEOID18
<b>Easting (M)</b> 332,411.1724	<b>0.0010</b>	<b>Latitude</b> 35 7 7.3975476
<b>Elevation (M)*</b> 87.196		<b>Longitude</b> 92 44 29.3730108
<b>Northing (SFT)</b> 286,701.4325		<b>Ellipsoid Height (M):</b> 58.671 0.0060
<b>Easting (SFT)</b> 1,090,585.6548		<b>Geoid Height (M):</b> -28.532 0.0060
<b>Elevation (SFT)*</b> 286.076		

  

<b>Convergence Angle</b>	<b>0</b>	<b>25</b>	<b>53.3058274</b>
<b>Scale Factor</b>	<b>0.999968730</b>		
<b>Elevation Adjust. Factor</b>	<b>0.9999863163</b>		
<b>Combined Adjust. Factor</b>	<b>0.9999550467</b>		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
<b>MK # 1</b>	8 IN ELM TREE	18	57.50	188.6
<b>MK # 2</b>				
<b>MK # 3</b>				

  

<b>Area Reference Monuments</b> (used for Processing)	<b>Comments</b>
<b>Ref Mon # 1</b> ARCW	
<b>Ref Mon # 2</b> ARDV	
<b>Ref Mon # 3</b> ARRV	

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470036	<b>Date Monumented</b> 4/25/2023	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> 61	<b>Job Number:</b> 101141
--------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	152,103.3883	0.0010			
<b>Easting (M)</b>	582,481.0914	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	499,025.8664				
<b>Easting (SFT)</b>	1,911,023.3807				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	10	23.6737935
<b>Scale Factor</b>	0.999937554		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	3	15.40	50.5
MK # 2	TELEPHONE BOX	205	1.60	5.2
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    ARWM, MOKE	<b>Comments</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
---	---

<b>Vertical Determined By:</b>	GPS - Unknown Quality
<b>Elevation Datum:</b>	NAVD 88
<b>Geoid Datum:</b>	Geoid 18
<b>Latitude</b>	35   41   15.0444672
<b>Longitude</b>	89   59   1.5705060
<b>Ellipsoid Height (M):</b>	45.327   0.0110
<b>Geoid Height (M):</b>	-27.694   0.0110

Location Description
TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.65 MILES TO RICHARD E PREWITT DR. HEAD WEST/RIGHT ON RICHARD E PREWITT DR FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> 470036A	<b>Date Monumented</b> 4/25/2023	<b>Monumented By</b> ARDOT	<b>County</b> MISSISSIPPI	<b>Route</b> 61	<b>Job Number:</b> 101141
---------------------------	-------------------------------------	-------------------------------	------------------------------	--------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301				
<b>Horizontal Datum</b>	NAD 83 (2011)				
<b>Northing (M)</b>	152,405.5526	0.0010			
<b>Easting (M)</b>	582,684.2498	0.0020			
<b>Elevation (M)*</b>					
<b>Northing (SFT)</b>	500,017.2172				
<b>Easting (SFT)</b>	1,911,689.9096				
<b>Elevation (SFT)*</b>					

  

<b>Convergence Angle</b>	1	10	28.5181016
<b>Scale Factor</b>	0.999937639		
<b>Elevation Adjust. Factor</b>			
<b>Combined Adjust. Factor</b>			

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	173	4.80	15.7
MK # 2	RAILROAD SIGNAL POLE	112	13.50	44.3
MK # 3				

  

<b>Area Reference Monuments</b> (used for Processing)  Ref Mon # 1    ARJB Ref Mon # 2    ARPG Ref Mon # 3    ARWM, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LT:35.4125    LG:89.5853</td> </tr> </table>	Comments	LT:35.4125    LG:89.5853
Comments			
LT:35.4125    LG:89.5853			

  

Location Description
TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

# ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

## GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

<b>Station</b> M 326	<b>Date Monumented</b> 6/9/2009	<b>Monumented By</b> ARDOT	<b>County</b> POPE	<b>Route</b> 6th Street	<b>Job Number:</b> 080686
-------------------------	------------------------------------	-------------------------------	-----------------------	----------------------------	------------------------------

  

<b>Zone</b> Arkansas North	<b>Zone Code</b> 301		
<b>Horizontal Datum</b>	NAD 83 (2011)		
<b>Northing (M)</b>	103,754.6182	0.0010	
<b>Easting (M)</b>	299,544.3928	0.0010	
<b>Elevation (M)*</b>	114.922	0.0010	
<b>Northing (SFT)</b>	340,401.6099		
<b>Easting (SFT)</b>	982,755.2287		
<b>Elevation (SFT)*</b>	377.040		

  

<b>Convergence Angle</b>	0	38	32.8049170
<b>Scale Factor</b>	0.999951515		
<b>Elevation Adjust. Factor</b>	0.9999819653		
<b>Combined Adjust. Factor</b>	0.9999334812		

  

SUPERCEDED CONTROL			
<b>Horizontal Datum</b>			
<b>Latitude</b>			
<b>Longitude</b>			
<b>Ellipsoid Height:</b>			
<b>Grid Northing (Meters)</b>			
<b>Grid Easting (Meters)</b>			

  

<b>Vertical Determined By:</b> 1st Order - NGS			
<b>Elevation Datum:</b>	NAVD 88		
<b>Geoid Datum:</b>	GEOID18		
<b>Latitude</b>	35	15	48.5181576
<b>Longitude</b>	93	6	14.5804824
<b>Ellipsoid Height (M):</b>	85.794	0.0000	
<b>Geoid Height (M):</b>	-29.128		

  

Location Description
<p>FROM THE INTERSECTION OF US HIGHWAY 64 AND STATE ROAD 324 EAST OF RUSSELLVILLE, GO EAST ON ROAD 324 FOR 0.45 MILES TO MACON AVENUE ON THE RIGHT. TURN RIGHT ON AVENUE AND GO 0.5 MILES UNTIL MACON AVENUE TURNS INTO 16TH STREET IN A CURVE. CONTINUE ON 16TH STREET FOR 0.5 MILES TO A STOP SIGN AT HIGHWAY 331. CONTINUE ON 16TH STREET FOR 0.05 MILES TO THE STATION ON THE LEFT. BENCHMARK DISK STAMPED "M 326 2009" SET 1.6 FEET WEST OF THE CL OF A DROP INLET.</p>

  

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	270	21.10	69.2
MK # 2	CL 16TH STREET	180	11.10	36.4
MK # 3	CL DAYTON AVENUE	90	18.50	60.7

  

<b>Area Reference Monuments (used for Processing)</b> <b>Ref Mon # 1</b> ARRV <b>Ref Mon # 2</b> ARDV <b>Ref Mon # 3</b> ARCW	<b>Comments</b> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
--	---

\* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES